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) - BROWNS FERRY NUCLEAR PLANT

Dear Mr. Scalice:

On September 30, 1999, the NRC staff completed the mid-cycle Plant Performance Review (PPR) of the Browns Ferry 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

TVA

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 guestions you may have.

Sincerely,

(Original signed by Paul E. Fredrickson)

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

Docket Nos. 50-259, 50-260, 50-296 License Nos. DPR-33, DPR-52, DPR-68

Enclosures: 1. Plant Issues Matrix 2. Inspection Plan

cc w/encls: Karl W. Singer, Senior Vice President Nuclear Operations Tennessee Valley Authority 6A Lookout Place 1101 Market Street Chattanooga, TN 37402-2801

Jack A. Bailey, Vice President Engineering and Technical Services Tennessee Valley Authority 3B Lookout Place 1101 Market Street Chattanooga, TN 37402-2801

John T. Herron, Site Vice President Browns Ferry Nuclear Plant Tennessee Valley Authority P. O. Box 2000 Decatur, AL 35602

cc w/encls continued: See page 3

### TVA

cc w/encls: Continued General Counsel Tennessee Valley Authority ET 10H 400 West Summit Hill Drive Knoxville, TN 37902

N. C. Kazanas, General Manager Nuclear Assurance Tennessee Valley Authority 5M Lookout Place 1101 Market Street Chattanooga, TN 37402-2801

Robert G. Jones, Plant Manager Browns Ferry Nuclear Plant Tennessee Valley Authority P. O. Box 2000 Decatur, AL 35609

Mark J. Burzynski, Manager Nuclear Licensing Tennessee Valley Authority 4X Blue Ridge 1101 Market Street Chattanooga, TN 37402-2801

Timothy E. Abney, Manager Licensing and Industry Affairs Browns Ferry Nuclear Plant Tennessee Valley Authority P. O. Box 2000 Decatur, AL 35609

Chairman Limestone County Commission 310 West Washington Street Athens, AL 35611

State Health Officer Alabama Department of Public Health RSA Tower - Administration Suite 1552 P.O. Box 303017 Montgomery, AL 36130-1701 TVA

Distribution w/encls: S. Collins, NRR J. Zwolinski, NRR H. N. Berkow, NRR W. O. Long, NRR W. M. Dean, NRR T.H. Boyce, NRR R. W. Borchardt, OE M. A. Satorius, EDO A. P. Hodgdon, OGC B. J. Keeling, GPA/CA W. Bearden, RII C. Smith, RII D. Jones, RII D. Thompson, RII L. Mellen, RII PUBLIC

NRC Senior Resident Inspector U. S. Nuclear Regulatory Commission 10833 Shaw Road Athens, AL 35611

OFFICE	RII:DRP		RIPRS	RILDRS	RII:DRS		
SIGNATURE	RPC	RJ RJ	Mails	Ph	CAAR	-	
NAME	RCarrion alt	KLandis	CIBE/IISIE	RBarr	CChristensen		
DATE	10/6 /99	10/ 6/99	10/ / /99	10/ 3/99	10/ ¥ /99	10/ /99	10/ /99
COPY?	YES NO	(YES) NO	YES NO	YES NO	YES NO	YES NO	YES NO

4

OFFICIAL RECORD COPY DOCUMENT NAME: G:\BF\PPR\Autumn99\PPRLTR1099.wpd

Page: 1 of 19 10/13/1999 15:33:48 IR Report 3

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

Region II BROWNS FERRY

Date	Source	Functional Area	ID	Туре	Template Codes	Item Title Item Description
09/04/1999	1999005	Pri: OPS	NRC	POS	Pri: 1A	Operator Performance
		Sec:			Sec:	Plant operators demonstrated good professionalism, conservatism, and communications.
Dockets Disc	ussed:				Ter:	
05000259 BR	OWNS FERRY	1				
05000260 BR	OWNS FERRY	2				
05000296 BR	OWNS FERRY	3				
07/24/1999	1999004	Pri: OPS	NRC	POS	Pri: 1A	UNIT 1 REQUIRED SYSTEMS
		Sec:			Sec:	Required Unit 1 systems were being maintained in acceptable materiel condition and were aligned as required for
Dockets Disc	ussed:				Ter:	operation.
05000259 BR	OWNS FERRY	1				
07/24/1999	1999004	Pri: OPS	NRC	POS	Pri: 1A	REPAIR OF LOW PRESSURE COOLANT INJECTION VALVE
		Sec:			Sec: 3A	Licensee actions to repair a damaged 24-inch low pressure coolant injection valve were safety-focused and
Dockets Disc	ussed:				Ter: 4B	performed within the Technical Specification allowed outage times. Good plant management oversight and involvement were demonstrated throughout the repair process.
05000296 BR	OWNS FERRY	3				
07/24/1999	1999004-01	Pri: OPS	Licensee	NCV	Pri: 3A	WRONG CS PUMP SELECTED FOR TESTING
		Sec:			Sec:	This NCV was identified for failure to comply with a surveillance test procedure. The wrong CS pump was selected
Dockets Disc	ussed:				Ter:	practices contributed to this issue. (The licensee reported this problem in LER 50-296/1999-004-000.)
05000296 BR	OWNS FERRY	3				
06/12/1999	1999003	Pri: OPS	NRC	POS	Pri: 1A	Startup from the Unit 2 Refueling Outage
		Sec:			Sec:	During the recovery and startup from the Unit 2 refueling outage, operators generally exhibited conservative
Dockets Disc	ussed:				Ter:	operating practices and maintained a focus on safety.
05000260 BR	OWNS FERRY	2				
06/12/1999	1999003	Pri: OPS	NRC	POS	Pri: 1B	Reactor Scram Due to Main Turbine Trip.
Sec: Sec: Unit 2 safety systems responded properly following a reactor scram which occurred when						Unit 2 safety systems responded properly following a reactor scram which occurred when the main turbine tripped
Dockets Disc 05000260 BR	ussed: OWNS FERRY	2			Ter:	were minimized and operators demonstrated professionalism and good reactivity controls. Control room formality was notably improved from recent observations.

ENCLOSURE 1

Page: 2 of 19 10/13/1999 15:33:48 IR Report 3

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

Region II BROWNS FERRY

		Functional			Template	Item Title
Date	Source	Area	ID	Туре	Codes	Item Description
06/12/1999	1999003-01	Pri: OPS	NRC	NCV	Pri: 1C	FAILURE TO COMPLY WITH SR 3.10.4.3.
		Sec:			Sec: 1A	Operators demonstrated inattention to detail in reactivity management and misinterpretation of procedures by failing
Dockets Dis	cussed:				Ter:	single control rods for testing. The licensee stated that the root cause was procedure inadequacy leading to
05000260 BF	ROWNS FERRY	2				operator misinterpretation of Procedure 2-SR-3.10.4.
06/12/1999	1999003	Pri: OPS	NRC	POS	Pri: 1A	Control Room Operator Performance During Testing
		Sec: MAINT			Sec: 1C	Control room operators were sensitive to minor issues which occurred during testing and good administrative
Dockets Dis	cussed:				Ter:	verification was noted.
05000260 BF	ROWNS FERRY	2				
05000296 BF		3				
05/28/1999	1999002-01	Pri: OPS	Licensee	NCV	Pri: 3A	FAILURE TO REMOVE MSRV VACUUM BREAKER COVERS
		Sec:			Sec:	The licensee demonstrated poor system configuration controls and attention-to-detail by failing to remove all of the
Dockets Dis	lockets Discussed:			Ter:	to the previous Unit 2 post-outage drywell closure, as required by procedures. The safety significance was reduced,	
05000260 BF	ROWNS FERRY	2				however, because the affected relief valves were not rendered inoperable.
05/28/1999	1999002-02	Pri: OPS	NRC	NCV	Pri: 1A	FAILURE TO MEET RHR SERVICE WATER SYSTEM DISCHARGE TEMPERATURE LIMITATION
		Sec:			Sec:	During shutdown cooling lineup checks for the Unit 2 refueling outage, precautions intended to control temperature
Dockets Dis	cussed:				Ter:	operators. However, the design temperature of the piping was not exceeded.
05000260 BF	ROWNS FERRY	2				
05/01/1999	1999002	Pri: OPS	NRC	POS	Pri: 1A	Operator Performance
		Sec:			Sec:	Operator performance in support of the Unit 2 refueling outage was acceptable. Prior to the outage, when a high
Dockets Dis	cussed:				Ter:	the system inoperable and promptly reported the event to the NRC pursuant to 10 CFR 50.72.
05000260 BF	ROWNS FERRY	2				
05/01/1999	1999002	Pri: OPS	NRC	POS	Pri: 1A	The Unit 2 Refueling Outage
		Sec:			Sec:	The Unit 2 refueling outage was well-planned and executed, notwithstanding unexpected emergent work.
Dockets Dis	cussed:				Ter:	timely implementation of the outage schedule.
05000260 BF	ROWNS FERRY	2				

Page: 3 of 19 10/13/1999 15:33:48 IR Report 3

Region II

## United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

BROWNS FERRY	(						
Date	Source	Functional Area	ID	Туре	Template Codes	Item Title Item Description	
05/01/1999	1999002	Pri: OPS	NRC	POS	Pri: 1B	Operator Response to Recirculation Pump Motor-Generator Failure	
Dockets Disc	ussed.	Sec:			Sec:	Proper plant conditions were established to minimize the impact of a plant transient prior to troubleshooting voltage fluctuations on the 3A recirculation pump motor-generator (MG) voltage regulator. Operators responded well to the	
05000296 BR	OWNS FERRY 3				Ter.	transient and no problems were identified with the transition to single loop operation.	
03/20/1999	1999001	Pri: OPS	NRC	POS	Pri: 1A	Performance of Control Room Shift Personnel	
		Sec:			Sec: 1B	Control room shift personnel continued to perform professionally and with an emphasis on safety. For example, the	
Dockets Disc 05000259 BR 05000260 BR 05000296 BR	ussed: DWNS FERRY 1 DWNS FERRY 2 DWNS FERRY 3				Ter:	cooling steam throttle valve body.	
03/20/1999	1999001	Pri: OPS	NRC	STR	Pri: 1B	Operator Response	
Dockets Disc 05000259 BR 05000260 BR 05000296 BR	03/20/1999 1999001 Dockets Discussed: 05000259 BROWNS FERRY 2 05000260 BROWNS FERRY 2 05000296 BROWNS FERRY 3		Sec: 1 2 3		Sec: 3A Ter:	The operators responded conservatively and appropriately to the failures associated with the standby gas treatment system, which resulted in entry into Technical Specification 3.0.3 and the commencement of a shutdown of both Units 2 and 3. Engineering and Maintenance support of the troubleshooting and correction of the causes of the failures was effective.	
03/20/1999	1999001	Pri: OPS	NRC	STR	Pri: 1C	Fuel Receipt Inspections	
		Sec:			Sec:	During fuel receipt inspection activities for Unit 2, the licensee's team demonstrated excellent teamwork and	
Dockets Disc 05000259 BR 05000260 BR 05000296 BR	<b>ussed:</b> OWNS FERRY 1 OWNS FERRY 2 OWNS FERRY 3				Ter:	was the second time the team identified such a discrepancy. In 1998, on Unit 3, an improperly fastened partial length rod was identified.	
03/05/1999	1998009-01	Pri: OPS	NRC	VIO IV	Pri: 1C	Inadequate Instrument Checks and Observations Procedure.	
Dockets Disc 05000260 BR 05000296 BR	ussed: OWNS FERRY 2 OWNS FERRY 3	Sec:			Sec: Ter:	Procedure 2/3-SR-2 was not adequately established or maintained to ensure that TS surveillance requirements were met, in that the licensee's methodology for calculating unidentified reactor coolant system leakage in Table 1.2 of the procedure resulted in a leak rate that was averaged over the previous 24-hour period in lieu of the required frequency of 12 hours; procedural steps for performing checks on the 2-out-of-4 Voter channels of the Average Power Range Monitors were not established in plant procedures; and Procedure 2/3-SR-2 was not adequate to cover TS-required surveillance checks for reactor vessel water level narrow range instruments when the plant was in Modes 4 and 5.	

Page: 4 of 19 10/13/1999 15:33:48 IR Report 3

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

Region	П
BROWN	S FERRY

		Functional			Template	Item Title
Date	Source	Area	ID	Туре	Codes	
02/06/1999	1998009	Pri: OPS	NRC	POS	Pri: 1A	Plant Operators
		Sec:			Sec: 1C	The operators continued to demonstrate good professionalism, conservatism, and communications in control of the
Dockets Disc	ussed:				Ter:	ventilation (CREV) surveillance procedure inadequacy and its effect on the plant.
05000259 BR	OWNS FERRY 1					
05000260 BR	DWNS FERRY 2					
05000296 BR	JIVING FERRI J					
12/26/1998	1998008	Pri: OPS	NRC	NEG	Pri: 1A	Implementation of Improved Technical Specifications
		Sec:			Sec:	The licensee continued to have difficulties with the implementation of the Improved Technical Specifications (TS).
Dockets Disc	ussed:				Ter:	was applicable during rod worth minimizer testing. The testing procedure was subsequently changed to ensure that
05000259 BR	OWNS FERRY 1					the LCO actions were followed.
05000260 BR	JWNS FERRY 2					
12/26/1998	1998008	Pri: OPS	NRC	POS	<b>Pri:</b> 1A	General Housekeeping
		Sec:			Sec:	Good housekeeping was noted in the accessible portions of the plant. Cold weather protection was well-maintained
Dockets Disc	ussed:				Ter:	
05000259 BR	JWNS FERRY 1					
05000200 BR	OWNS FERRY 3					
40/06/4008	1008008	Brit ODO			Drit 4D	Descrete Alent Transient
12/20/1990	1990000	PIL OPS	NRC	P05	Pili (D	A Unit Roard 3B lockout caused a plant transient on November 17, 1998. Overall, the operators' response to the
Dockate Disc	uccod	Sec:			Sec:	transient was good.
05000259 BR	OWNS FERRY 1				ler:	
05000260 BR	OWNS FERRY 2					
05000296 BR	OWNS FERRY 3					
11/14/1998	1998007	Pri: OPS	NRC	POS	Pri: 1A	Refueling Activities
		Sec:			Sec: 1C	Fuel movement activities were properly implemented during the Unit 3 refueling outage. Refueling bridge personne
Dockets Disc	ussed:				Ter:	demonstrated good communications and performed fuel movement verifications in a consistent manner.
05000259 BR	OWNS FERRY 1					
05000260 BR	OWNS FERRY 2					
05000296 BR	OWNS FERRY 3					

Page: 5 of 19 10/13/1999 15:33:48 IR Report 3

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

Region II BROWNS FERRY

Date	Source	Functional Area	ID	Туре	Template Codes	Item Title Item Description
11/14/1998	1998007	Pri: OPS	NRC	STR	Pri: 1A	Performance of Operators
		Sec:			Sec:	The operators performed in a professional and conservative manner. A strength was noted in the high quality of the
Dockets Disc	cussed:				Ter:	control room logs.
05000259 BR	OWNS FERRY 1	1				
05000296 BR	ROWNS FERRY 3					
11/14/1998	1998007	Pri: OPS	NRC	STR	Pri: 3A	Drywell Housekeeping
		Sec:			Sec:	Subsequent to the completion of the Unit 3 Cycle 8 refueling outage, drywell housekeeping was excellent with a few
Dockets Discussed: Ter: 05000296 BROWNS FERRY 3		Ter:	for exceptions which were promptly corrected.			
11/14/1998	1998007-01	Pri: OPS	NRC	VIOIV	Pri: 3B	Failure to Comply with LCO 3.0.4 for HPCI System Operability
		Sec:			Sec: 1A	Licensed operators demonstrated a knowledge deficiency when they failed to implement the requirements of
Dockets Disc 05000296 BR	c <b>ussed:</b> ROWNS FERRY 3	;			Ter:	Technical Specification (TS) Limiting Condition for Operation 3.0.4. The operators incorrectly continued RPV heatup through 150 psig while HPCI was inoperable for maintenance.
11/02/1998	1998006-01	Pri: OPS	Licensee	NCV	Pri: 1A	Abnormal Operating Instruction Not Followed for Mispositioned Control Rod.
		Sec:			Sec:	A control rod was inadvertently withdrawn several notches past its previous position and promptly inserted back to
Dockets Disc	cussed:				Ter:	human error and the cause of the re-insertion of the control rod without direction was human error.
05000260 BF	ROWNS FERRY 2					
10/03/1998	1998006	Pri: OPS	NRC	NEG	Pri: 1A	Unit 3 Reactor Shutdown for Refueling Outage
		Sec:			Sec:	Operations personnel inappropriately entered into TS LCO 3.0.3 when tagging out the Unit 3 CAD system prior to
Dockets Disc	cussed:				Ter:	operators involved were not appropriately sensitive to intentional entry into TS LCO 3.0.3 did not exist,
05000296 BF	ROWNS FERRY 3	5				
10/03/1998	1998006	Pri: OPS	NRC	NEG	Pri: 1A	Licensee Management Expectations for Signing Working Copies of Clearances in the Field Were Not Diligent
		Sec:			Sec: 1C	Licensee management expectations for signing the working copies of clearances in the field were not diligently
Dockets Disc	cussed:				Ter:	personnel following identification of the issue
05000259 BF	ROWNS FERRY 1	•				
05000200 BP	COWNS FERRY 3	•				

Page: 6 of 19 10/13/1999 15:33:48 IR Report 3

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

Region II BROWNS FERRY

Date	Source	Functional Area	ID	Туре	Template Codes	Item Title Item Description
10/03/1998	1998006	Pri: OPS	NRC	POS	Pri: 1B	Licensee Response to Unit 2 Turbine Trip and Reactor Scram.
		Sec: MAINT			Sec: 5A	Plant systems responded as designed when an automatic turbine trip and reactor scram occurred on Unit 2.
Dockets Disc	ussed:				Ter: 5B	Incident Investigation Team performed a thorough investigation of the event.
05000259 BR	OWNS FERRY	1				
05000260 BR	OWNS FERRY	2				
10/02/1009	1009006		NBO	<b>DO0</b>	Dri: 04	
10/03/1998	1990000		NRC	POS	Pri: 2A	Good Material Conditions Noted.
Dookoto Dice	usesdu	Sec: MAINT			Sec:	General material conditions of the Onit 2 Core Spray system and of the Onit 5 torus were considered to be good.
05000260 BR	USSEU. OWNS FERRY	2			Ter:	
05000296 BR	OWNS FERRY	3				
09/04/1999	1999005	Pri: MAINT	NRC	POS	Pri: 3A	Maintenance Work Activities
		Sec:			Sec:	Observed maintenance work activities were performed in a professional manner.
Dockets Disc	ussed:				Ter:	
05000259 BR	OWNS FERRY	1				
05000260 BR	OWNS FERRY	2				
05000296 BR	OWNS FERRY	3				
09/04/1999	1999005	Pri: MAINT	NRC	POS	Pri: 3A	High Risk Main Turbine Control Troubleshooting
		Sec:			Sec: 3B	The licensee's staff demonstrated good coordination, communication, and attention to detail while performing high
Dockets Disc	ussed:				Ter:	
05000260 BR	OWNS FERRY	2				
09/04/1999	1999005	Pri: MAINT	NRC	POS	Pri: 2A	Reactor Core Isolation Cooling Turbine Trip/Throttle Valve Troubleshooting
		Sec: ENG			Sec: 2B	Good engineering direction of troubleshooting and good maintenance support of repair activities were observed
Dockets Disc	ussed:	EIIO			Ter:	during resolution of a reactor core isolation cooling turbine trip/throttle valve failure to trip.
05000260 BR	OWNS FERRY	2				
07/24/1000	1000004	Deix MANNIT			Dris 0.4	
0772471999	1999004	PTI: MAINT	NRC	POS	PTI: 3A	MAINTENANCE AND SURVEILLANCE ACTIVITIES
Dookoto Dico	uccod	Sec:			Sec: 2B	professional manner, with emphasis on self-checking and accurate communications.
05000259 BR	OWNS FERRY	1			Ter:	
05000260 BR	OWNS FERRY	2				
05000296 BR	OWNS FERRY	3				

Page: 7 of 19 10/13/1999 15:33:48 IR Report 3

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

### Region II BROWNS FERRY

		Functional			Template	Item Title	
Date	Source	Area	ID	Туре	Codes	Item Description	
07/24/1999	1999004-02	Pri: MAINT	Licensee	NCV	Pri: 3A	Failure to Properly Install HPCI Relay Contact Inhibits	
		Sec:			Sec: 3B	This NCV was identified for failure to follow a surveillance procedure. A Maintenance technician did not utilize a	
Dockets Disc 05000260 BR	Dockets Discussed: 05000260 BROWNS FERRY 2			Ter:	test. Consequently, an error was made resulting in an inadvertent isolation of the HPCI system steam supply.		
07/24/1999	1999004-03	Pri: MAINT	NRC	NCV	Pri: 2B	FAILURE TO MAINTAIN AND IMPLEMENT SAFETY-RELATED PROCEDURE	
		Sec:			Sec:	This NCV was identified for failure to maintain and implement a safety-related calibration procedure. The procedure	
Dockets Disc 05000260 BR 05000296 BR	:ussed: :OWNS FERRY : :OWNS FERRY :	2			Ter:	to its implemention.	
07/24/1999	1999004-04	Pri: MAINT	Licensee	NCV	Pri: 1A	FAILURE TO CONDUCT PRIMARY CONTAINMENT OXYGEN CONCENTRATION TS SURVEILLANCE	
		Sec:			Sec: 2B	This event was the result of a lack of tracking and turnover communication related to a failed oxygen sample pump	
Dockets Disc 05000260 BR 05000296 BR	Dockets Discussed: 05000260 BROWNS FERRY 2 05000296 BROWNS FERRY 3				Ter: 3A	analyzer on Unit 2. The licensee reported this problem in Licensee Event Report (LER) 50-260/1999-007-000.	
06/12/1999	1999003-02	Pri: MAINT	NRC	NCV	Pri: 3B	INADEQUATE TEST CONTROL OF HYDRAULIC SNUBBERS.	
Dockets Disc 05000260 BR 05000296 BR	cussed: COWNS FERRY 2 COWNS FERRY 3	<b>Sec:</b> 2			Sec: 3A Ter:	As a result of the licensee's failure to provide sufficient technical guidance, TRM surveillance testing for several Unit 2 and Unit 3 Bergen-Paterson Type HSSA-3 hydraulic snubbers was not properly performed. However, the improperly tested snubbers did not result in any loss of system safety function. In addition, during snubber retesting, the inspectors identified incorrect operator interpretation and administration of TRM LCOs for snubbers removed for testing.	
05/28/1999	1999002-03	Pri: MAINT	NRC	NCV	Pri: 3A	FAILURE TO FOLLOW HYDRAULIC SNUBBER FUNCTIONAL TEST INSTRUCTIONS	
		Sec:			Sec: 2B	During review of periodic surveillance functional testing and maintenance of system hydraulic snubbers during the	
Dockets Disc 05000260 BR	cussed: COWNS FERRY 2	2			Ter:	snubber was signed off as satisfactory, based on inappropriate, undocumented evaluation.	
05/01/1999	1999002	Pri: MAINT	NRC	POS	Pri: 2B	Surveillance Testing Performance	
		Sec:			Sec:	Surveillance tests observed during the inspection period were generally performed in a professional and safe	
Dockets Disc 05000259 BR 05000260 BR 05000296 BR	CUSSED: COWNS FERRY COWNS FERRY COWNS FERRY	1 · · · 2 3			Ter:	acceptance test. This complex test required the coordination of numerous personnel in different plant areas to perform plant manipulations and gather test data. The evolution was completed without problems.	

Page: 8 of 19 10/13/1999 15:33:48 IR Report 3

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

Region II BROWNS FERRY

		Functional			Template	Item Title	
Date	Source	Area	ID	Туре	Codes	Item Description	
05/01/1999	1999002	Pri: MAINT	NRC	POS	Pri: 2B	Inservice Inspection Activities	
		Sec:			Sec: 3A	Inservice inspection activities observed were performed in a thorough manner by knowledgeable examiners using	
Dockets Disc 05000260 BR	ussed: OWNS FERRY 2				Ter:	approved procedures.	
05/01/1999	1999002	Pri: MAINT	NRC	POS	Pri: 3A	Conduct of Maintenance	
		Sec:			Sec: 2B	Work activities observed were conducted in a well-planned and professional manner. Workers were familiar with the	
Dockets Disc 05000260 BR 05000296 BR	ussed: OWNS FERRY 2 OWNS FERRY 3				Ter:	assigned tasks. Engineering support of the maintenance, where applicable, was good. The engineers freq monitored the work and were knowledgeable of the equipment. Proper radiological controls were maintaine required.	
04/15/1999	1999001-01	Pri: MAINT	Licensee	NCV	Pri: 1C	INADEQUATE SURVEILLANCE PROCEDURE	
		Sec:			Sec: 3A	The surveillance procedure for performing CREV system flow rate and filter testing was inadequate, in that	
Dockets Disc 05000260 BR 05000296 BR	Dockets Discussed: 05000260 BROWNS FERRY 2 05000296 BROWNS FERRY 3				Ter:	of CREV were inoperable for approximately 11 hours.	
04/15/1999	1999001-02	Pri: MAINT	Licensee	NCV	Pri: 1A	FAILURE TO FOLLOW SURVEILLANCE PROCEDURE.	
		Sec:			Sec:	Incomplete communications between Operations and Maintenance personnel caused the failure to promptly declare	
Dockets Disc 05000296 BR	ussed: OWNS FERRY 3	i			Ter:	the shutdown board SEB battery inoperable. Maintenance personnel failed to follow the procedure which required that they immediately notify the US at the time of the failure. The inspectors concluded that the lack of detailed questioning on the part of the US was a contributing factor.	
03/20/1999	1999001	Pri: MAINT	NRC	POS	Pri: 3A	Observed Work Activities	
		Sec:			Sec: 3B	Work activities observed during the inspection period were conducted in a professional manner. Workers	
Dockets Disc 05000259 BR 05000260 BR 05000296 BR	ussed: OWNS FERRY 1 OWNS FERRY 2 OWNS FERRY 3	2			Ter:	In general, radiological controls observed during the inspection period were effective and consistent with licensee expectations.	
02/06/1999	1998009	Pri: MAINT	NRC	POS	Pri: 3A	Surveillance Testing	
		Sec:			Sec: 1C	Surveillance testing was performed satisfactorily. The licensee's response to a failed hydraulic valve operator during	
Dockets Disc	ussed:				Ter:	high pressure coolant injection system testing was prompt and well-executed.	
05000259 BR 05000260 BR 05000296 BR	OWNS FERRY 1 OWNS FERRY 2 OWNS FERRY 3	2					

Page: 9 of 19 10/13/1999 15:33:48 IR Report 3

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

Region II BROWNS FERRY

Date	Source	Functional Area	ID	Туре	Template Codes	Item Title Item Description
02/06/1999	1998009	Pri: MAINT	NRC	POS	Pri: 3A	Performance of Work Activities
		Sec:			Sec: 2B	Observed work activities were performed in a professional manner. Good self-checking and engineering support
Dockets Disc	ussed:				Ter:	were noted during implementation of a temporary alteration that bypassed a failed rod position indication switch. The temporary alteration package and engineering drawings were actively checked to ensure that the work was
05000259 BR	OWNS FERRY	′ 1				properly performed.
05000260 BR	OWNS FERRY	2				
05000296 BR	OWNS FERRY	3				
01/25/1999	1998008-02	Pri: MAINT	NRC	VIOIV	Pri: 2B	Inadequate SBGT Heater Flow Switch Logic Functional Test
		Sec:			Sec:	The surveillance procedure for functional testing of the Standby Gas Treatment System relative humidity flow switch
Dockets Disc	ussed:				Ter:	circuit. The planned corrective actions were reviewed and determined to be acceptable.
05000259 BR	OWNS FERRY	′ 1				
05000260 BR	OWNS FERRY	2				
05000296 BR	OWNS FERRY	3				
12/26/1998	1998008	Pri: MAINT	NRC	POS	Pri: 3A	Work Activities
		Sec:			Sec: 3B	Work activities were well-controlled. The prejob briefing for the inspection/calibration of a Reactor Core Isolation
Dockets Disc	Dockets Discussed: 05000259 BROWNS FERRY 1				Ter:	problems, and emphasized the importance of good communications with operations personnel.
05000259 BF						
05000260 BF		2				
12/26/1998	1998008	Pri: MAINT	NRC	POS	Pri: 3A	Surveillance Testing Activities
		Sec:			Sec: 3B	Surveillance testing activities were performed in a professional manner with good attention to self-checking. Lead performers were knowledgeable of their tasks.
Dockets Disc	ussed:				Ter:	
05000259 BF		(1)				
05000260 BF		13				
0000200 Di					Duit an	
12/09/1998	1998007-03	Pri: MAINT	Licensee	NCV	Pri: 28	Failure to Properly Implement Common Accident Signal Logic Test
		Sec:			Sec: 3B	actuation of the B3 Emergency Equipment Cooling Water pump. Additional deficiencies associated with the
Dockets Disc		( <b>2</b>			Ter:	recommended use of the VOM were noted after testing was restarted following the actuation.
05000296 BF	OWNS PERKI	5				
11/14/1998	1998007	Pri: MAINT	NRC	NEG	Pri: 2B	Inadequate Surveillance Procedure for Functional Testing of Standby Gas Treatment System
		Sec:			Sec:	The surveillance procedure for functional testing of the Standby Gas Treatment System relative humidity flow switch
Dockets Dise	cussed:				Ter:	channels was inadequate to test the flow switch contacts in the relative numberly heater circuit.
05000260 BF	NOWNS FERRY	(2				
05000296 BF	OWNS FERRY	13				

Page: 10 of 19 10/13/1999 15:33:48 IR Report 3

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

Region II BROWNS FERRY

		Functional			Template	Item Title
Date	Source	Area	ID	Туре	Codes	
11/14/1998	1998007	Pri: MAINT	NRC	POS	Pri: 2B	Maintenance Rule Assessments
		Sec:			Sec:	The licensee's periodic assessment report provided sufficient detail to demonstrate that the licensee had adequately
Dockets Disc	ussed:				Ter:	structures, and components within the scope of the Maintenance Rule. The licensee's assessment met the
05000259 BR	OWNS FERRY	<b>′</b> 1				requirements of NUMARC 93-01 and paragraph (a)(3) of 10 CFR 50.65.
05000260 BR	OWNS FERRY	2				
05000296 BR	OWNS FERRY	3				
11/14/1998	1998007	Pri: MAINT	NRC	POS	Pri: 3A	Work Practices
		Sec:			Sec: 3B	Work practices were professional and properly controlled. Workers were knowledgeable of their assigned tasks.
Dockets Disc	ussed:				Ter:	vacuum type breaker during replacement activities on the Unit 1 4-kilovolt Unit Board.
05000259 BR	OWNS FERRY	<b>′</b> 1				
05000260 BR	OWNS FERRY	2				
05000296 BR	OWNS FERRY	3				
11/14/1998	1998007	Pri: MAINT	NRC	POS	Pri: 3A	Surveillance Test Activities
		Sec:			Sec: 3B	Surveillance test activities were conducted in a professional manner, with good coordination demonstrated between
Dockets Discussed:				Ter:	Heat Removal Service Water pump testing.	
05000260 BR	OWNS FERRY	(2				
05000296 BR	OWNS FERRY	13				
10/03/1998	1998006	Pri: MAINT	NRC	POS	Pri: 2B	In-Service Testing Program
		Sec:			Sec:	The licensee's Inservice Testing (IST) program scope was satisfactory. The licensee's Program Manual for the
Dockets Disc	ussed:				Ter:	and implemented procedures which met IST program requirements for reactor core isolation cooling (RCIC) and
05000260 BR	OWNS FERRY	(2				residual heat removal systems (RHR) were described and tested in appropriate procedures.
05000296 BR	OWNS FERRY	(3				
10/03/1998	1998006	Pri: MAINT	NRC	POS	Pri: 3A	Thorough Troubleshooting of Equipment Problems Was Observed.
		Sec:			Sec: 3B	Thorough troubleshooting of equipment problems was observed during the inspection period. Workers were found
Dockets Disc	ussed:				Ter:	to be knowledgeable of their assigned tasks. Good work practices were demonstrated.
05000260 BR	OWNS FERRY	(2				
05000296 BR	OWNS FERRY	13				
10/03/1998	1998006	Pri: MAINT	NRC	POS	Pri: 2B	Operators Backed Out of Testing and Consulted Engineering for Support When Problems Were Encountered
		Sec: ENG			Sec: 3B	Operators conservatively backed out of testing and consulted engineering for support when problems were
Dockets Disc	ussed:				Ter:	encountered during core spray logic system functional testing. Operations personnel performing the test demonstrated an in-depth knowledge of the test and the consequences of potential personnel errors.
05000296 BR	OWNS FERRY	(3				annenerare en ar acha managa el ma recente an en el contra de la contra de la contra de la contra de la contra

Page: 11 of 19 10/13/1999 15:33:48 IR Report 3

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

Region II

		Functional			Template	Item Title
Date	Source	Area	ID	Туре	Codes	Item Description
05/28/1999	1999002-04	Pri: ENG	NRC	NCV	Pri: 4C	FAILURE TO PERFORM A SAFETY EVALUATION
		Sec:			Sec:	The licensee failured to perform a safety evaluation in support of work/testing on the HPCI system with the system
Dockets Disc 05000260 BR	ussed: OWNS FERRY :	2			Ter:	being operable, as required by plant procedures and TO CPR 50.59.
05/01/1999	1999002	Pri: ENG	NRC	NEG	Pri: 4A	Modeling Assumptions for Turbine Trip Transients
		Sec:			Sec:	The modeling assumptions for most turbine trip transients in the licensee's core reload analysis, General Electric
Dockets Disc 05000260 BR 05000296 BR	ussed: OWNS FERRY OWNS FERRY	2 3			Ter:	transient pressure response was controlled by the turbine stop valves vice the turbine control valves. However, the operating limit minimum critical power ratio was not affected for the current operating cycles of Units 2 and 3.
04/15/1999	1999001-03	Pri: ENG	Licensee	NCV	Pri: 1A	FAILURE TO PERFORM A SAFETY EVALUATION
		Sec:			Sec: 1C	The licensee identified that a plant alteration was implemented on FSAR-described EHC circuits associated with the
Dockets Disc 05000260 BR 05000296 BR	ussed: OWNS FERRY OWNS FERRY	2 3			Ter: 2A	Units 2 and 3 stop valves without first performing a written safety evaluation as required by 10 CFR 50.59.
04/15/1999	1999001-04	Pri: ENG	Licensee	NCV	Pri: 4B	FAILURE TO ESTABLISH PROCEDURES TO PROPERLY TEST CREV SYSTEM LOGIC.
		Sec:			Sec: 1C	Procedures were not established to perform logic system functional testing of the CREV system low air flow trip
Dockets Disc 05000260 BR 05000296 BR	ussed: OWNS FERRY OWNS FERRY	2 3			Ter:	
03/05/1999	1998009-05	Pri: ENG	NRC	NCV	Pri: 4A	Failure to Maintain Proper Controls Over CAD Design.
Dockets Discussed: 05000260 BROWNS FERRY 2 05000296 BROWNS FERRY 3		Sec: 2 3			Sec: Ter:	During a review for the Thermal Power Uprate Program, the licensee identified a non-conservative calculation for the amount of nitrogen required to meet the seven-day design basis supply in the containment atmospheric dilution (CAD) tanks. The amount of nitrogen required by the TS would not be sufficient for seven days of post-loss-of-coolant- accident (LOCA) operation, as required by the design basis. Immediate corrective actions were implemented to maintain the tank levels above 95% to ensure the design basis requirements were met. The licensee took prompt actions to repair the tanks and restore the vacuum to an acceptable value. Technical Instruction 0-TI-384, CAD Tank Boil-Off Determination, was issued to address the nitrogen boil-off rate in a formal manner
12/17/1998	1998011	Pri: ENG	NRC	NEG	Pri: 4A	Mechanical/Nuclear Calculations
		Sec:			Sec:	Although the mechanical/nuclear calculations reflected the plant's current design and licensing basis, a number of
Dockets Disc 05000259 BR 05000260 BR 05000296 BR	owns ferry Owns ferry Owns ferry Owns ferry	1 2 3			Ter:	operability concerns associated with adequate HPCI pump NPSH with the suction aligned to the Condensate Storage Tank or the Suppression Pool.

Page: 12 of 19 10/13/1999 15:33:48 IR Report 3

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

### Region II BROWNS FERRY

	<u>.</u>	Functional		Tune	Template	Item Title
Date	Source		<u>u</u>	туре		
12/17/1998	1998011	Pri: ENG	NRC	NEG	Pri: 4C	FSAR Requirements
		Sec:			Sec:	Requirements of FSAR Sections 8.6.2.2, 8.6.4.1, and 8.6.5 could not be met because of the 250-VDC system's
Dockets Discu	ussed:				Ter:	inadequate battery capacity. This was identified as an original plant design deliciency.
05000259 BRO	OWNS FERRY 1					
05000260 BRC	OWNS FERRY 2					
05000296 BRC	DWNS FERRY 3					
12/17/1998	1998011	Pri: ENG	NRC	POS	Pri: 4A	TS Changes 384 and 386
		Sec:			Sec:	The licensee has implemented design changes which fully satisfy its regulatory commitments for TS changes 384
Dockets Discu	ussed:				Ter:	and 386.
05000259 BRC	OWNS FERRY 1					
05000260 BRC	OWNS FERRY 2					
05000296 BRC	OWNS FERRY 3					
12/17/1998	1998011	Pri: ENG	NRC	POS	Pri: 4A	HPCI Electrical Equipment
		Sec:			Sec:	The electrical equipment in the HPCI room was qualified to meet the environmental changes resulting from the
Dockets Discu	ussed:				Ter:	power uprate.
05000259 BRC	OWNS FERRY 1	Y 1				
05000260 BRO						
05000296 BRC						
12/17/1998	1998011	Pri: ENG	NRC	POS	<b>Pri:</b> 4A	Engineering Approach
		Sec:			Sec:	The review of Electrical Calculation ED-Q0256-880707 showed that the assumptions made were adequate and a sound engineering approach was used
Dockets Discu	ussed:				Ter:	Sound engineering approach was docd.
05000259 BRO	OWNS FERRY 1					
05000260 BRO						
05000296 BRC						
12/17/1998	1998011	Pri: ENG	NRC	POS	Pri: 4C	HPCI System Instrument Loops
	5				Sec:	The licensee developed and implemented plantmodifications which evaluated the HPCI system instrument loops and demonstrated their capacity to operate under power uprate conditions. The instrument loops were
Dockets Discu	ussed:				Ter:	demonstrated to be sufficiently accurate to perform their design function.
05000259 BRO	OWNS FERRY 1					
05000260 BRC	OWNS FERRY 3					

Page: 13 of 19 10/13/1999 15:33:48 IR Report 3

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

Region II BROWNS FERRY

Date	Source	Functional Area	ID	Туре	Template Codes	Item Title Item Description
12/17/1998	1998011	Pri: ENG	NRC	POS	Pri: 5A	Self-Assement Plan
		Sec:			Sec:	The self-assessment plan prepared to evaluate the HPCI system was both thorough and complete.
Dockets Discus 05000259 BROV 05000260 BROV 05000296 BROV	sed: VNS FERRY 1 VNS FERRY 2 VNS FERRY 3				Ter:	
12/09/1998	1998007-04	Pri: ENG	NRC	VIOIV	Pri: 1A	Failure to Follow Procedure for Disposition of Non-Conforming Material Condition
Dockets Discus 05000260 BROV 05000296 BROV	sed: VNS FERRY 2 VNS FERRY 3	Sec:			Sec: 4C Ter:	The licensee's engineering group failed to follow a material receipt and inspection procedure, which required an item to be held in abeyance pending resolution of an unacceptable condition. Three pressure controller replacement flappers were placed in storage for use in the plant without the required resolution having been made. Subsequent review determined that the flappers were acceptable for use.
11/02/1998	1998006-03	Pri: ENG	Licensee	NCV	Pri: 1A	Inoperable Rod Block Monitor.
		Sec:			Sec:	The licensee took appropriate corrective actions upon identifying the problem with the rod block monitor.
Dockets Discussed: 05000260 BROWNS FERRY					Ter:	
10/03/1998	1998006-02	Pri: ENG	NRC	VIOIV	Pri: 1C	Inadequate RHR Valve Logic and Interlock Surveillance.
		Sec: MAINT			Sec:	Surveillance procedures for functional testing of the residual heat removal loop I/II valve logic and interlocks were
Dockets Discus 05000260 BROV 05000296 BROV	sed: NNS FERRY 2 NNS FERRY 3				Ter:	inadequate.
07/24/1999	1999004	Pri: PLTSUP	NRC	POS	Pri: 1A	SECURITY PERFORMANCE
Dockets Discus 05000259 BROV 05000260 BROV 05000296 BROV	ssed: NNS FERRY 1 NNS FERRY 2 NNS FERRY 3	Sec:			Sec: Ter:	Security personnel were observed to have met their responsibilities in a professional manner. They were alert and attentive to their posts.
06/12/1999	1999003	Pri: PLTSUP	NRC	NEG	Pri: 1C	Emergency Exercise Areas for Improvement
Dockets Discus 05000259 BROV 05000260 BROV 05000296 BROV	sed: NNS FERRY 1 NNS FERRY 2 NNS FERRY 3	Sec:			Sec: Ter:	Areas for improvement were: (1) proper adherence to procedural requirements; (2) consistently updating the Technical Assessment Team regarding plant repair priorities; and (3) improving the performance of the technical support groups in the Central Emergency Control Center.

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

Region II BROWNS FERRY

<b>.</b>	0	Functional	ID	Tuno	Template Codes	Item Title Item Description
Date	Source		ID	туре		
06/12/1999	1999003	Pri: PLTSUP	NRC	NEG	<b>Pri:</b> 5A	Erroneous Protective Action Recommendation
		Sec:			Sec:	The second of the licensee's two protective action recommendations was erroneous, and constituted a failure to meet one of the established emergency preparedness exercise objectives.
Dockets Disc	ussed:				Ter:	
05000259 BR		1				
05000260 BR	OWNS FERRY	2				
06/12/1999	1999003	Pri: PLTSUP	NRC	POS	Pri: 1C	Personnel Exposure Records Reconciliation Project
		Sec:			Sec:	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 Disc	ussed:				Ter:	
05000259 BR		1				
05000260 BR	OWNS FERRY	2				
06/12/1999	1999003	Pri: PLTSUP	NRC	POS	Pri: 1C	1999 Biennial Emergency Preparedness Exercise
		Sec:			Sec:	The licensee's submittals of the scope and objectives, as well as the scenario package, were timely and appropriate for the 1999 biennial emergency preparedness exercise.
Dockets Disc	ussed:				Ter:	
05000259 BR		1				
05000200 BR	OWNS FERRY	3				÷
	4000000					Environment Personal Constitution
06/12/1999	1999003	Pri: PLTSUP	NRC	POS	Pri: 40	Emergency Response Capabilities
		Sec:			Sec: 3B	was a successful demonstration of the licensee's emergency response capabilities.
Dockets Disc		· •			Ter:	
05000259 BR	OWNS FERRI	1 72				
05000296 BR	OWNS FERRY	3				
05/01/1000	1000002		NDO	POS	Pri: 20	Monitoring and Control of Personnel Radiation Exposure
05/01/1999	1999002	PR: PLISUP	NRC	P05	Fill 30	The licensee properly monitored and controlled personnel radiation exposure during the Unit 2 Cycle 10 refueling
Dealeta Dias	uccody	Sec:			Sec:	outage and posted area radiological conditions in accordance with 10 CFR Part 20.
05000260 BR	OWNS FERRY	12			ier:	
0000200 DI		<b>-</b>				
05/01/1999	1999002	Pri: PLTSUP	NRC	POS	Pri: 3C	ALARA Goals
		Sec:			Sec:	The licensee was generally successful in meeting established ALARA goals, in that eight of ten goals were met
Dockets Disc	ussed:				Ter:	aunny 1994 unough 1990.
05000260 BR	OWNS FERRY	2				

Page: 15 of 19 10/13/1999 15:33:48 IR Report 3

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

Region	I	
DDOMA	IC	CEDE

BROWNS FERRY	,					
Date	Source	Functional Area	ID	Туре	Template Codes	Item Title Item Description
03/20/1999	1999001	Pri: PLTSUP	NRC	POS	Pri: 1C	Training of Radiation Protection and Chemistry Personnel
		Sec:			Sec:	Training was provided to Radiation Protection and Chemistry personnel in accordance with the descriptions
Dockets Discussed: 05000259 BROWNS FERRY 05000260 BROWNS FERRY 05000296 BROWNS FERRY		1 2 3			Ter:	
03/20/1999	1999001	Pri: PLTSUP	NRC	POS	Pri: 1C	Gaseous Effluent Analysis Program
Dockets Disc	ussed:	Sec:			Sec: Ter:	The licensee had established and implemented an adequate program for assuring the quality of gaseous effluent analyses.
05000259 BR 05000260 BR 05000296 BR	owns ferry owns ferry : owns ferry :	1 2 3				
03/20/1999	1999001	Pri: PLTSUP	NRC	POS	Pri: 1C	Access Authorization Program
		Sec:			Sec: 3A	The licensee was appropriately following the guidance provided by Regulatory Guide 5.66 and Nuclear Management and Resources Council (NI MARC) 89-01 to implement the access authorization program.
Dockets Disc 05000259 BR 05000260 BR 05000296 BR	ussed: OWNS FERRY OWNS FERRY : OWNS FERRY :	1 2 3		Ter: 4C		
03/20/1999	1999001	Pri: PLTSUP	NRC	POS	Pri: 1C	Safeguards Events
		Sec:			Sec: 3B	The licensee appropriately analyzed, tracked, resolved, and documented safeguards events in the security event
Dockets Disc 05000259 BR 05000260 BR 05000296 BR	ussed: OWNS FERRY OWNS FERRY OWNS FERRY	1 2 3			Ter: 5B	
03/20/1999	1999001	Pri: PLTSUP	NRC	POS	Pri: 1C	Qualifications of Security Officers
		Sec:			Sec: 3B	Security officers were appropriately trained and qualified to perform their duties in accordance with the licensee's
Dockets Disc 05000259 BR 05000260 BR 05000296 BR	ussed: OWNS FERRY OWNS FERRY OWNS FERRY	1 2 3			Ter: 5B	

Page: 16 of 19 10/13/1999 15:33:48 IR Report 3

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

### Region II BROWNS FERRY

Date	Source	Functional Area	ID	Туре	Template Codes	Item Title Item Description
03/20/1999	1999001	Pri: PLTSUP	NRC	POS	Pri: 2A	Availability of Continuous Air Radiation Monitors
		Sec:			Sec:	Availability of continuous air radiation monitoring systems has improved; however, the Unit 2 monitors were not
Dockets Discu 05000259 BR( 05000260 BR( 05000296 BR(	u <b>ssed:</b> DWNS FERRY 1 DWNS FERRY 2 DWNS FERRY 3				Ter:	meeting established licensee performance goals due to a lack of proper attention on corrective maintenance.
03/20/1999	1999001	Pri: PLTSUP	NRC	POS	Pri: 2B	Emergency Preparedness Program
Dockets Disce 05000259 BR0 05000260 BR0 05000296 BR0	ussed: DWNS FERRY 1 DWNS FERRY 2 DWNS FERRY 3	Sec:			Sec: Ter:	The licensee's Emergency Preparedness Program was being maintained in a state of full operational readiness. Changes to the program since December 1997 were consistent with the licensee's Emergency Plan and NRC requirements.
03/20/1999	1999001	Pri: PLTSUP	NRC	POS	Pri: 2B	Physical Security/Contingency Plan Changes
Dockets Disc 05000259 BR 05000260 BR 05000296 BR	ussed: DWNS FERRY 1 DWNS FERRY 2 DWNS FERRY 3	Sec:			Sec: 4C Ter:	The Physical Security/Contingency Plan changes did not decrease the effectiveness of the Physical Security/Contingency Plan.
03/20/1999	1999001	Pri: PLTSUP	NRC	STR	Pri: 1C	Security Audits
		Sec:			Sec: 4C	Licensee-conducted audits were thorough, complete, and effective in terms of uncovering weaknesses in the
Dockets Disc 05000259 BR 05000260 BR 05000296 BR	ussed: DWNS FERRY 1 DWNS FERRY 2 DWNS FERRY 3				Ter: 5B	in a timely manner. The security audit/self-assessment program continues to be a strength.
02/06/1999	1998009	Pri: PLTSUP	NRC	POS	Pri: 1A	Radiation Controls
		Sec:			Sec: 1C	The licensee continued to demonstrate good radiation controls.
Dockets Disc 05000259 BR 05000260 BR 05000296 BR	ussed: DWNS FERRY 1 DWNS FERRY 2 DWNS FERRY 3				Ter:	

Page: 17 of 19 10/13/1999 15:33:48 IR Report 3

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

Reg	ion	II		
DDC	11A/N	c	66	DC

		Functional			Template	Item Title
Date	Source	Area	ID	Туре	Codes	Item Description
02/06/1999	1998009	Pri: PLTSUP	NRC	POS	Pri: 1A	Plant Security
		Sec:			Sec: 1C	Plant Security continued to be well-implemented.
Dockets Discu	issed:				Ter:	
05000259 BRC	WNS FERRY 1					
05000260 BRC	WNS FERRY 2					
12/26/1008	1008008			NEC	Pri: 40	Padiological Postings and Docimetry
12/20/1990	1990000	PIL PLISUP	NRC	NEG	5001	Several examples where radiological postings did not meet licensee expectations were identified. In addition
Dockets Discu	issed:	Sec.			Jec.	examples of workers not wearing dosimetry consistent with the licensee's expectations were identified.
05000259 BRC	WNS FERRY 1				ier.	
05000260 BRC	WNS FERRY 2					
05000296 BRC	OWNS FERRY 3					
12/26/1998	1998008	Pri: PLTSUP	NRC	POS	Pri: 2A	Program for Radioactive Effluent Monitoring Instrumentation
		Sec:			Sec:	The licensee had implemented an effective program for maintaining radioactive effluent monitoring instrumentation
Dockets Discu	ussed:				Ter:	in an operable condition and for performing the required surveillances to demonstrate their operability.
05000259 BRC	WNS FERRY 1					
05000260 BRC	WINS FERRY 2					
		<b></b> .				
12/26/1998	1998008	Pri: PLTSUP	NRC	POS	Pri: 2A	Control Room Emergency Ventilation System
De deste Die er		Sec:			Sec: 4C	the required surveillances to demonstrate operability of the systems.
05000250 BRO	ISSED: NAMIS FERRY 1				Ter:	
05000259 BRC	OWNS FERRY 2					
05000296 BRC	OWNS FERRY 3					
12/26/1998	1998008	Pri: PLTSUP	NRC	POS	Pri: 4C	Severe Accident Management Guidelines Drill
		Sec:			Sec:	The licensee conducted the first Severe Accident Management Guidelines drill in a professional manner and the
Dockets Discu	ussed:				Ter:	recinical Support Center critique neio immediately alter the drift was sell-childai.
05000259 BRO	OWNS FERRY 1					
05000260 BR0						
0000296 BR						

Page: 18 of 19 10/13/1999 15:33:48 IR Report 3

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

Region	II	
BROWN	S	FERRY

Date	Source	Functional Area	ID	Туре	Template Codes	Item Title Item Description
11/14/1998	1998007	Pri: PLTSUP	NRC	POS	Pri: 1A	Performance of Security Officers
		Sec:			Sec: 1C	Performance of security officers in safeguarding the facility was satisfactory; they were attentive to their duties and
Dockets Discu	Dockets Discussed:				Ter: 3A	cognizant of their surroundings.
05000259 BRO	WNS FERRY 1					
05000260 BRO	WNS FERRY 2	2				
05000296 BRO	WNS FERRY 3	\$				
11/14/1998	1998007	Pri: PLTSUP	NRC	POS	Pri: 1A	Radiation Protection of Personnel
		Sec:			Sec: 3B	Radiation protection of personnel was effectively implemented through the proper administration of the control point,
Dockets Discu	ssed:				Ter:	radiological postings, and integrity of locked high radiation areas.
05000259 BRO	WNS FERRY 1	i				
05000260 BRO	WNS FERRY 2	2				
05000296 BRO	WNS FERRY 3	3				
10/03/1998	1998006	Pri: PLTSUP	NRC	POS	Pri: 1A	Personnel Radiation Exposure Control and Monitoring
		Sec:			Sec: 2B	The licensee properly monitored and controlled personnel radiation exposure during the Unit 3 Cycle 8 refueling
Dockets Discu	ssed:				Ter:	hazards and protective measures were adequate. Maximum individual radiation exposures were well within the
05000259 BRO	WNS FERRY 1					regulatory limits for occupational dose specified in 10 CFR 20.1201(a). The licensee was generally successful in meeting established ALARA goals
05000260 BRO	WNS FERRY 2	2				meeting established herd of goals.
05000296 BRO	WWNS FERRY 3	5				
10/02/1998	1998012	Pri: PLTSUP	NRC	POS	Pri: 1A	Security Facilities and Equipment
		Sec:			Sec:	The licensee's security facilities and equipment were determined to be very well maintained and reliable. The
Dockets Discu	ssed:				Ter:	maintenance was considered a strength. The excellent Engineering and I&C support was the major contributing
05000259 BRO	WNS FERRY 1					factor to continued operability of the detection and assessment equipment.
05000260 BRO	WNS FERRY 2	2				
05000296 BRO	WINS FERRY 3	5				
10/02/1998	1998012	Pri: PLTSUP	NRC	POS	<b>Pri:</b> 1A	SFM Duties and Responsibilities
		Sec:			Sec:	The SFMs adequately demonstrated that they have the requisite knowledge necessary to effectively implement the
Dockets Discu	ssed:				Ter:	duties and responsibilities associated with their day-to-day and contingency response positions.
05000259 BRO	WNS FERRY 1	ł				
05000260 BRO	WNS FERRY 2	2				
05000296 BRO	WWNS FERRY 3	5				

# United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

### 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
	ΜV	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
2		

### Legend

Template Codes:				
1A	Normal Operations			
1B	Operations During Transients			
1C	Programs and Processes			
2A	Equipment Condition			
2B	Programs and Processes			
ЗA	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			
Licens	see Licensee			

# Functional Areas:OPSOperationsMAINTMaintenanceENGEngineeringPLTSUPPlant SupportOTHEROtherMISCMiscellaneous

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.

# **BROWNS FERRY NUCLEAR PLANT**

# **INSPECTION PLAN**

INSPECTION PROCEDURE	TITLE	NO. OF INSPECTORS	INSPECTION DATES	
84750 and 86750	Radioactive Waste Treatment, and Effluent and Environmental Monitoring Solid Radioactive Waste Management and Transportation of Radioactive Materials	1	10/99	Core
40500	Effectiveness of Licensee Process to Identify, Resolve, and Prevent Problems	3	11/99	Core
71001	Licensed Operator Requalification Program Evaluation	1	12/99	Core

ENCLOSURE 2