

United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

Region II
NORTH ANNA

Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
01/01/2000	1999008	Pri: OPS Sec:	NRC	POS	Pri: 1B Sec: 3A Ter:	Response to a Unit 2 Manual Reactor Trip Control room personnel appropriately initiated a manual Unit 2 reactor trip due to the loss of two of three main feed water pumps and properly responded to expected post trip conditions. The Unit 2 startup and power ascension was performed in a safe professional manner. Control room operators manipulated plant controls methodically, were attentive to plant parameters, and used three-part communications.
Dockets Discussed: 05000339 North Anna 2						
01/01/2000	1999008	Pri: OPS Sec:	NRC	POS	Pri: 1C Sec: 3A Ter:	Activities Associated with a Transfer of a Loaded Cask Operations, security, and health physics personnel activities performed during transfer of a loaded cask to the independent spent fuel storage installation (ISFSI) were in accordance with approved procedures. Observed activities met regulatory requirements specified in 10 CFR Part 72 and the ISFSI Technical Specifications.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
11/20/1999	1999007	Pri: OPS Sec:	NRC	POS	Pri: 1A Sec: Ter:	Startup following replacement of Turbine-Generator trip block diaphragms On November 10, Unit 2 power was reduced to about 15 percent and the turbine-generator was taken off-line in order to replace faulty trip block diaphragms. The inspectors noted that operation's activities to reduce and subsequently restore unit power were appropriately performed.
Dockets Discussed: 05000339 North Anna 2						
11/20/1999	1999007	Pri: OPS Sec:	NRC	POS	Pri: 1A Sec: 3B Ter:	Unit 2 Startup Activities Unit 2 reactor startup and subsequent ascension to 30 percent power were well controlled. Operators received training on startup activities prior to the actual startup. The operators demonstrated an appropriate level of understanding of the unit power ascension procedure.
Dockets Discussed: 05000339 North Anna 2						
11/20/1999	1999007	Pri: OPS Sec:	NRC	POS	Pri: 2A Sec: 2B Ter: 4B	Cold Weather Protection Freeze protection procedures were comprehensive and effectively implemented. The overall condition of the plant's freeze protection systems was acceptable. Engineering continues to evaluate long standing heat trace (HT) system deficiencies and the licensee continues in their efforts to improve overall HT system performance.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
10/09/1999	1999006	Pri: OPS Sec:	NRC	POS	Pri: 1A Sec: 3B Ter:	Shutdown for Unit 2 Refueling Outage On September 12, Unit 2 was shutdown for a scheduled refueling outage. The inspectors observed that shutdown activities were well-controlled. Operations personnel received special shutdown training and were well-prepared for the shutdown.
Dockets Discussed: 05000339 North Anna 2						

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10/09/1999	1999006	Pri: OPS Sec:	NRC	POS	Pri: 1A Sec: 3C Ter:	Unit 2 Startup from Refueling Outage The inspectors observed that the Unit 2 reactor startup and the overall approach to criticality activities were carefully controlled. The licensee assigned extra operators to perform tasks such as pulling control rods, feeding steam generators, and performance of routine control room activities. Extra supervisors were also assigned to monitor such tasks.
Dockets Discussed: 05000339 North Anna 2						
10/09/1999	1999006	Pri: OPS Sec: MAINT	NRC	POS	Pri: 2B Sec: 3A Ter:	Unit 2 Refueling Outage Repair Activities Repair activities to increase the margin between breaker over-current setpoints, resolve reactor coolant pump seal standpipe alarms, and correct pressurizer power-operated relief valve leakage were properly performed and appropriately completed prior to the Unit 2 restart following a refueling outage.
Dockets Discussed: 05000339 North Anna 2						
08/28/1999	1999005-01	Pri: OPS Sec:	Licensee	NCV	Pri: 1A Sec: 3C Ter: 3A	Placement of Unit 2 Deborating Demineralizer (2-CH-I-3A) in Service for One Hour A non-cited violation of Technical Specification 6.8.1 was identified for failure to follow procedures which required operating personnel to minimize distractions during reactivity changes. The control board operator was distracted by other activities and left the Unit 2 deborating demineralizer in service for one hour rather than the planned 10 minutes. A minor increase in reactor power to 100.15 percent resulted. In addition, an extra control board operator and the unit senior reactor operator, who had verified the proper system lineup, were also distracted by other activities and failed to notice the problem.
Dockets Discussed: 05000339 North Anna 2						
08/28/1999	1999005	Pri: OPS Sec: ENG	NRC	NEG	Pri: 2A Sec: 4B Ter:	Service Water System Pond Spray Array Walkdown Inspection The inspectors performed service water system spray pond area walkdowns and assessed conditions of the pond's service water spray array piping and nozzle assemblies. During the initial walkdown, pin hole leaks and clogged nozzles were identified to the licensee. During a subsequent walkdown at the end of the report period, the inspectors observed acceptable system component performance with only minor deficiencies. Engineering evaluated a removed section of service water spray array piping which had general and localized pitting on the pipe's interior. Based upon this assessment, the licensee considered the spray array piping to be degraded but was capable of performing its intended safety function
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
07/17/1999	1999004	Pri: OPS Sec:	NRC	POS	Pri: 2A Sec: 1A Ter:	1H Emergency Diesel Generator Starting Air System General Walkdown The starting air system for the 1H emergency diesel generator was in good condition. All system components were properly positioned and labeled as compared to plant drawings and procedures. No system air leaks were identified.
Dockets Discussed: 05000338 North Anna 1						
07/17/1999	1999004	Pri: OPS Sec:	NRC	POS	Pri: 2A Sec: 4B Ter: 3B	Internal Flood Protection Readiness Flood protection equipment and instrumentation were operable and were maintained in good condition. Internal flooding procedures were of good quality and operators demonstrated knowledge of flood protection actions.
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07/17/1999	1999004	Pri: OPS Sec:	NRC	POS	Pri: 3A Sec: 4B Ter: 1C	Observation of Spent Fuel Cask Operation The procedures used for loading and testing of a spent fuel dry cask and related activities provided adequate details for craft personnel to conduct the work. Craft personnel followed procedures and properly performed work. Radiation control personnel constantly monitored the radiation levels around the cask. The records for cask loading and related activities were adequate.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
07/17/1999	1999004	Pri: OPS Sec:	NRC	POS	Pri: 5C Sec: 1A Ter: 2A	Service Water System Pipe Leak in Unit 2 Control Room Ventilation Chiller Room Corrective actions to repair a service water system leak in the Unit 2 control room chiller room was timely. Operations response to the identified leak and actions taken to realign plant equipment to comply with Technical Specifications requirements were appropriate.
Dockets Discussed: 05000339 North Anna 2						
07/17/1999	1999004-01	Pri: OPS Sec:	Licensee	NCV	Pri: 1A Sec: 3A Ter:	Painting With a Safeguards Area Ventilation System Iodine Filter in Service A Non-Cited violation of Technical Specification 6.8.1, "Procedures and Programs," was identified for painting in a ventilation zone that directly communicated with the auxiliary building iodine filter while the filter was in service.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
06/05/1999	1999003	Pri: OPS Sec:	NRC	NEG	Pri: 2A Sec: 1A Ter:	Auxiliary Service Water System General Walkdown Material condition of several supports associated with the auxiliary service water system was poor due to corrosion caused by ineffective sump pump operation. All valves were in their required position; however, three component labeling issues were identified. There was mild surface rusting of carbon steel components, none affecting component integrity. Housekeeping issues identified included inoperable lighting, wet flooring, groundwater inleakage and the presence of rust scale and smaller trash items.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
06/05/1999	1999003	Pri: OPS Sec:	NRC	POS	Pri: 1A Sec: 3A Ter: 2A	Unit 1 Power Reduction Plant operators properly reduced load to 60% to support modifications to the main generator's bus duct cooling system. Procedure usage, annunciator response, communications, and management oversight of the evolution were appropriate. The unit properly responded to the load decrease and no unusual secondary plant equipment performance issues were identified.
Dockets Discussed: 05000338 North Anna 1						
06/05/1999	1999003	Pri: OPS Sec:	NRC	POS	Pri: 1B Sec: 2A Ter: 3A	Controller Malfunction Caused Opening of Unit 2 Power Operated Relief Valve Operator response to a transient caused by a malfunction of the pressurizer pressure master controller was good. The operators terminated the transient by immediately closing the power operated relief valve (PORV) and the pressurizer spray valves and placing the pressurizer master pressure controller in manual. Applicable actions required by Technical Specification 3.4.3.2, "Safety and Relief Valves - Operating," were properly executed.
Dockets Discussed: 05000339 North Anna 2						

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06/05/1999	1999003	Pri: OPS Sec:	NRC	POS	Pri: 2A Sec: 1A Ter:	Boron Injection Flow Path General Walkdown The boron injection flow path from the A boric acid tank via the A boric acid transfer pump was properly aligned for operation. System material condition and housekeeping in the vicinity of system components were good. No conditions were identified that would have prevented boron injection to the reactor coolant system via this flow path.
Dockets Discussed: 05000338 North Anna 1						
06/05/1999	1999003-01	Pri: OPS Sec:	Licensee	NCV	Pri: 1A Sec: Ter:	Switch Mispositioned for Supply Dampers to Control Room Emergency Fan A non-cited violation was identified for the failure to maintain the local control switch for the Unit 1 control room emergency fan in the required "Lockout" position. The "Lockout" position ensures that, during the first hour after a safety injection signal, air in the control room envelope is recirculated and filtered through the system's charcoal filter and that outside air is not drawn into the control room.
Dockets Discussed: 05000338 North Anna 1						
04/24/1999	1999002	Pri: OPS Sec:	NRC	NEG	Pri: 2A Sec: Ter:	Detailed Safeguards Area Ventilation Walkdown Inspection Although the condition of the safeguards area ventilation system was adequate, the inspectors identified several deficiencies, such as a small tear in a flexible joint and a mispositioned damper. However, the inspectors concluded that the system would have responded as designed to maintain the safeguards area at a negative pressure with the required flow rate and to direct exhaust air through the iodine filter banks.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
04/24/1999	1999002	Pri: OPS Sec:	NRC	NEG	Pri: 3B Sec: 4C Ter:	Training for Technical Specifications Although operators were generally knowledgeable of recent Technical Specification (TS) changes, operator knowledge of a recent TS change which increased the Emergency Diesel generator (EDG) allowed outage time from 72 hours to 14 days needed improvement. Senior reactor operators were unsure of available options and restoration priorities should an additional EDG or the station blackout diesel become inoperable during the 14 day allowed outage time.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
04/24/1999	1999002	Pri: OPS Sec:	NRC	POS	Pri: 1A Sec: 2A Ter:	Review of Heating, Ventilation, and Air Conditioning Configuration B The heating, ventilation, and air conditioning system alignment that supports movement of spent fuel and associated items in the fuel building was in accordance with operating procedure requirements. With one exception, fuel building and control room differential pressures were maintained within their normal operating values. When one of the control room differential pressure readings was noted to be outside the required value, the senior reactor operator appropriately stopped work in the fuel building.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
04/24/1999	1999002	Pri: OPS Sec:	NRC	POS	Pri: 1A Sec: 3A Ter: 2A	Response to Unit 1 Battery Charger 1-I Failure Operators properly responded to a failed battery charger and placed the swing charger in service within the required Technical Specification (TS) allowed outage time. Good pre-job briefings, appropriate procedure execution, and well thought out contingency planning contributed to the success of the battery charger failure response.
Dockets Discussed: 05000338 North Anna 1						

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04/24/1999	1999002	Pri: OPS Sec:	NRC	POS	Pri: 1B Sec: 3A Ter: 2A	Unit 2 Steam Generator (SG) Water Level Instrument Card Failure Operator response to an increase in the Unit 2 A steam generator water level caused by a faulty power supply card was good. The operator quickly diagnosed the transient and took manual control of the main feedwater regulating valve (MFRV) to terminate the level increase. Once the faulty card was replaced, the operators successfully returned the MFRV to automatic control.
Dockets Discussed: 05000339 North Anna 2						
04/24/1999	1999002	Pri: OPS Sec:	NRC	POS	Pri: 2B Sec: 1A Ter:	Observations During 1J Emergency Diesel Generator Unavailability TS 3.8.1.1, "A.C. Sources," requirements were satisfied while the 1J emergency diesel generator (EDG) was removed from service for major maintenance. The 1H EDG, the opposite unit's EDGs, and station blackout diesel were available for operation. Proper consideration of maintenance affecting the availability of offsite power was performed during the EDG outage.
Dockets Discussed: 05000338 North Anna 1						
03/13/1999	1999001	Pri: OPS Sec:	NRC	NEG	Pri: 1A Sec: 3A Ter:	Unit 1 "A" Safety Injection Accumulator Depressurization The licensee inadvertently momentarily caused the Unit 1 SI "A" accumulator to depressurize one psig below the technical specification required limit. The depressurization was caused by inadequate communications during shift turnover, absence of an equipment status entry and ineffective procedure execution.
Dockets Discussed: 05000338 North Anna 1						
03/13/1999	1999001	Pri: OPS Sec:	NRC	POS	Pri: 1A Sec: 2A Ter: 3C	Service Water Piping Replacement for Units 1 and 2 Control Room Ventilation Chillers Replacement of Units 1 and 2 service water piping to the control room ventilation chillers was properly performed. Associated Technical Specification actions statements were executed as required. After some uncertainty was observed concerning the control room pressure boundary status, a status board was prominently displayed for personnel. Fire protection was properly addressed.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
03/13/1999	1999001	Pri: OPS Sec:	NRC	POS	Pri: 1B Sec: 3A Ter:	Loss of Unit 1 Electrical Inverter 1-III The plant responded as designed to the loss of the 1-III electrical inverter power source to the associated 120 VAC vital bus. Technical specification 3.8.2.1 was properly executed. Operator response to the main feedwater transient which occurred as a result of the power loss was excellent. The operator quickly responded to the transient by taking manual control of the main feedwater regulating valves.
Dockets Discussed: 05000338 North Anna 1						
03/13/1999	1999001	Pri: OPS Sec:	NRC	POS	Pri: 5A Sec: 5C Ter:	Management Review Board Meeting Management review board activities continued to provide a positive management forum for self-assessment of station activities and were an effective contributor to the licensee's corrective action program.
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03/13/1999	1999001-01	Pri: OPS Sec:	Licensee	NCV	Pri: 1A Sec: 3A Ter: 2B	Failure to Perform a Reactor Coolant System Leak Rate Test When Required A non-Cited violation was identified for the failure to perform a valid reactor coolant system leak rate calculation which resulted in a missed technical specification surveillance. Operators who performed the leak rate test displayed an inadequate attention to detail, in that, they failed to initiate an evaluation when the leak rate increased to approximately one third of that allowed by Technical Specifications.
Dockets Discussed: 05000338 North Anna 1						
01/01/2000	1999008	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 3B Ter:	Maintenance Activities Observed maintenance activities, including replacement of a power cable to a Unit 1 hydrogen recombiner and the repair of a carbon dioxide tank master pilot valve, were properly performed. Personnel performing the repair work were knowledgeable and followed specific work package and vendor technical manual instructions.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
01/01/2000	1999008	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 3B Ter:	Periodic Tests Periodic tests for Unit 1 turbine-driven auxiliary feedwater pump and nuclear instrumentation were properly performed. Test procedures were appropriately followed by knowledgeable workers who used self-checking techniques prior to component/system operation.
Dockets Discussed: 05000338 North Anna 1						
11/20/1999	1999007	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 3B Ter:	Maintenance Activities Observed maintenance activities which included replacement of the Unit 2 main turbine auto stop oil trip block diaphragms and repair of a turbine building oil room fire damper were properly performed. Personnel performing the repair work were knowledgeable and followed specific work package and technical manual instructions.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
11/20/1999	1999007	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 3B Ter:	Periodic Tests Periodic tests for the 1H emergency diesel generator battery, the station blackout diesel, and leak testing of instrument air check valves were properly performed. Plant test procedures were properly followed by knowledgeable workers who used self-checking techniques prior to component/system operation.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
10/09/1999	1999006	Pri: MAINT Sec:	NRC	POS	Pri: 2A Sec: 2B Ter: 5C	Unit 2 Containment Liner Through-wall Corrosion Licensee actions taken following discovery of through-wall corrosion on the containment liner were well-planned and properly executed. The inspectors confirmed that actions taken conformed to regulatory requirements.
Dockets Discussed: 05000339 North Anna 2						

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10/09/1999	1999006	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 3A Ter:	Unit 2 Integrated Containment Leakage Test The Unit 2 integrated leakage rate test was performed in accordance with procedures and applicable regulations and demonstrated that the overall integrated containment leakage rate was within technical specification values. Procedure adherence and communications and coordination helped result in successful test performance with no significant problems.
Dockets Discussed: 05000339 North Anna 2						
10/09/1999	1999006	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 3B Ter:	Maintenance Activities Observed maintenance activities including reassembly of a Unit 2 low head safety injection suction valve, inspection/replacement of the number 2 seal for the 2B reactor coolant pump and replacement of the actuator diaphragm for a Unit 2 pressurizer power-operated relief valve were properly performed. Personnel performing the work were knowledgeable, properly trained and followed work package instructions.
Dockets Discussed: 05000339 North Anna 2						
10/09/1999	1999006	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 3B Ter:	Inservice Examinations Inservice examination procedures reviewed were concise and well written. Inservice examinations observed were generally conducted in accordance with approved procedures, by qualified and properly certified examiners using properly certified and calibrated equipment and materials.
Dockets Discussed: 05000339 North Anna 2						
10/09/1999	1999006	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 3C Ter: 3B	Periodic Surveillance Tests Periodic surveillance tests on reactor protection logic were carefully performed by knowledgeable workers. Applicable technical specification requirements for each surveillance were satisfied. The use of a lead periodic test coordinator represented a good maintenance practice.
Dockets Discussed: 05000339 North Anna 2						
10/09/1999	1999006-01	Pri: MAINT Sec:	NRC	NCV	Pri: 2B Sec: 3A Ter:	Failure to Follow Inservice Inspection Procedures A non-cited violation was identified for two examples of failure to follow inservice inspection procedures. Rust and scale had not been removed at the toe of a residual heat removal system weld prior to liquid penetrant inspection and an examiner did not wait the required five minutes for his eyes to adjust to the darkened area prior to a fluorescent wet magnetic particle examination of a reactor pressure vessel stud.
Dockets Discussed: 05000339 North Anna 2						
08/28/1999	1999005	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 4B Ter:	Unit 2 Urgent Failure Alarm Maintenance activities associated with repairing rod control system problems were meticulously performed with good support from other organizations such as operations and engineering.
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07/17/1999	1999004	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 3A Ter: 1C	Miscellaneous 480V Breaker Maintenance Preventive maintenance on several 480V breakers was properly performed by knowledgeable workers. The workers followed their procedures and were properly trained. Radiological work practices for these slightly contaminated breakers were good. The work area was properly controlled to prevent the spread of contamination and health physics support was evident.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
07/17/1999	1999004	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 3A Ter: 2A	Unit 2 Protection Channel III Periodic Test Applicable Technical Specifications 4.3.1.1.1 and 4.3.2.1.1 requirements were satisfied during a routine periodic test of Unit 2 protection channel III. The workers followed their procedure, used proper self-check techniques, and effectively communicated. The test cabinet was properly labeled and housekeeping around the cabinet was good as evidenced by general cleanliness and proper lighting.
Dockets Discussed: 05000339 North Anna 2						
07/17/1999	1999004	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 4C Ter:	Unit 2 Control Room Emergency Ventilation System Test Technical Specification 4.7.7.1.a, "Control Room Emergency Habitability Systems," requirements were satisfied during the monthly test of the control room emergency ventilation fan and associated heaters. The system ran for the required ten hours and the required heater kilowatt output was maintained.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
06/05/1999	1999003	Pri: MAINT Sec: ENG	NRC	POS	Pri: 2B Sec: 3A Ter: 1A	Periodic Test Observations A routine periodic test for Unit 2 engineered safety feature actuation system slave relays was properly performed by knowledgeable workers. The test was approved by station management and technical specifications requirements were satisfied. Unit 1 core flux map activities were properly performed by a knowledgeable reactor engineer. The engineer demonstrated a thorough understanding of operation of the incore detector system and associated Technical Specifications (TSs). TS 3.2.2 and 3.3.3.2 were satisfied during the flux map activities.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
06/05/1999	1999003	Pri: MAINT Sec: PLTSUP	NRC	NEG	Pri: 1C Sec: 2B Ter:	1H Emergency Diesel Generator Maintenance Observations Fire protection program implementation was identified as an area of needed improvement. Several problems involving fire watch requirements and control and storage of combustible materials occurred during maintenance on the 1H emergency diesel generator.
Dockets Discussed: 05000338 North Anna 1						
04/24/1999	1999002	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 3A Ter: 1A	Miscellaneous Periodic Test (PT) Observations Periodic tests for the solid state protection systems, the Unit 1 auxiliary feedwater system, the 2H emergency diesel generator, and the station blackout diesel were properly performed. Test procedures were properly followed by knowledgeable workers. The tests were properly approved by station management and included in the licensee's evaluation for online maintenance. Associated Technical Specification requirements were satisfied.
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04/24/1999	1999002	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 3A Ter: 2A	Observation of Maintenance Activities Maintenance on the Unit 2 C main feedwater regulating valve, steam generator (SG) A power operated relief valve and channel III SG A water level power supply card; the Unit 1 1-IV inverter power supply breaker; and the service air compressor were properly performed. Personnel performing these activities were knowledgeable and followed work package instructions. The licensee evaluated the impact of this work on plant risk in accordance with their maintenance rule program.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
03/13/1999	1999001	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 3A Ter: 1A	Miscellaneous Periodic Tests (PT) Observations Routine periodic tests for Unit 1 and 2 quench spray subsystems and the Unit 2 turbine driven auxiliary feedwater system were properly performed. Test procedures were properly followed by knowledgeable workers. The tests were properly approved by station management and included within the licensee's evaluation for on-line maintenance. Technical specifications requirements were also satisfied.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
03/13/1999	1999001	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 3A Ter: 3C	Observation of Maintenance Activities Unit 1 maintenance activities for the 1A component cooling water heat exchanger, 1C charging pump lube oil cooler, and the 1-III inverter power supply breaker were properly performed. The personnel conducting the activities were knowledgeable and properly followed work package instructions. Use of photographs to help workers better understand the work environment was noteworthy.
Dockets Discussed: 05000338 North Anna 1						
03/13/1999	1999001-02	Pri: MAINT Sec:	NRC	NCV	Pri: 2B Sec: 3A Ter:	Failure to Perform Inservice Testing or Post Maintenance Testing on Unit 2 CC Valves A non-cited violation was identified for the failure to perform inservice testing or post maintenance tests (PMTs) following vent cap replacement on component cooling (CC) water valves. The licensee subsequently justified deferring testing for some CC valves until the first available opportunity, i.e., when plant conditions allow.
Dockets Discussed: 05000339 North Anna 2						
11/20/1999	1999007-01	Pri: ENG Sec:	Licensee	NCV	Pri: 4A Sec: Ter:	Failure to install an Appendix R fire damper in accordance with the license condition and the Updated Final Safety Analysis Report An Appendix R fire damper in the Technical Support Center ventilation system failed its functional test due to the surrounding duct work interfering with the damper's movement. A non-cited violation was identified for failure to install the fire damper in accordance with a license condition and the Updated Final Safety Analysis Report.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
08/28/1999	1999005	Pri: ENG Sec:	NRC	POS	Pri: 4C Sec: 2B Ter:	Year 2000 Unit 2 High-Capacity Blowdown Modification Review The inspectors, using Temporary Instruction (TI) 2515/141, "Review of Year 2000 (Y2K) Readiness of Computer Systems at Nuclear Power Plants." performed a review of a Y2K modification performed on the Unit 2 High-Capacity Steam Generator (S/G) Blowdown System. The modification, including all testing and validation, was successfully completed. The work was in accordance with the guidance contained in TI 2515/141.
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08/28/1999	1999005-03	Pri: ENG Sec:	Licensee	NCV	Pri: 2B Sec: 3A Ter: 1C	Improper Sampling During ISFSI Operation A non-cited violation of Independent Spent Fuel Storage Installation (ISFSI) Technical Specification (TS) surveillance requirement 3.2.1.1 was identified. Prior to the first fuel assembly being loaded into the ISFSI cask, the boron concentration measurements of the water in the spent fuel pool and cask pit were not independent measurements as required. Subsequent independent measurements confirmed that the boron concentration met the TS acceptance criterion (NCV 72-016/99005-01).
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
06/05/1999	1999003	Pri: ENG Sec:	NRC	POS	Pri: 5C Sec: 5B Ter: 4B	Engineering Corrective Action Review Based on a review of two deficiency reports on the auxiliary feedwater and emergency diesel generator systems, the licensee corrected these identified problems in a timely manner commensurate with their risk significance.
Dockets Discussed: 05000339 North Anna 2						
04/24/1999	1999002	Pri: ENG Sec:	NRC	POS	Pri: 5B Sec: 4B Ter: 5C	Review of Continued 125 VDC Breaker Thermography Efforts Continuing efforts for examination and evaluation of elevated connection temperatures on 125 VDC breakers were appropriate. Prudent action was taken to determine the scope of the problem and efforts were scheduled accordingly to determine the root cause.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
03/13/1999	1999001	Pri: ENG Sec:	NRC	POS	Pri: 4A Sec: 1A Ter:	Switch-Over From a Unit 2 Steam Flow-Based to a Feedwater (FW) Flow-Based Calorimetric The Unit 2 conversion from a steam flow-based calorimetric to a feedwater flow-based calorimetric was performed in accordance with the associated design change package. Although the unit produced approximately 20 megawatts more power, the revised calorimetric demonstrated that the unit was operating within licensed and core operating limits report allowable values.
Dockets Discussed: 05000339 North Anna 2						
03/13/1999	1999001	Pri: ENG Sec:	NRC	POS	Pri: 5B Sec: 5C Ter: 2A	Trip of General Electric (GE) Molded Case Circuit Breaker Supplying Unit 1 1-III Inverter The licensee, through thermography, determined that the breaker which tripped and caused a loss of the Unit 1 120 VAC vital bus 1-III had an elevated temperature at the breaker's electrical connection. The actions to temporarily correct the condition and the licensee's plans to monitor the breaker and perform a more in-depth root cause analysis were acceptable. The licensee is evaluating the need to perform preventive maintenance on this and similar breakers.
Dockets Discussed: 05000338 North Anna 1						
03/13/1999	1999001-03	Pri: ENG Sec:	Licensee	NCV	Pri: 2B Sec: 2A Ter:	Failure to Adhere to Material Specifications for the Unit 2 B Charging Pump Motor Lead Lugs A non-cited violation of 10 CFR 50, Appendix B, Criterion V was identified for use of a motor lead lug on the B charging pump that was not in conformance with material specifications.
Dockets Discussed: 05000339 North Anna 2						

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By Primary Functional Area

Region II
NORTH ANNA

Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
01/01/2000	1999008	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	Posting of Notices to Workers Posting locations for items required to be posted by 10 CFR 19.11 were sufficient in number and were conspicuously located for workers to observe them. All required postings were in place.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
01/01/2000	1999008	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	Actions taken for an Inoperable Fire Suppression Tank The correct Technical Requirement Manual actions were taken for the inoperable auxiliary building carbon dioxide fire suppression tank. Compensatory measures were adequately implemented and controlled.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
01/01/2000	1999008-02	Pri: PLTSUP Sec:	NRC	NCV	Pri: 1C Sec: Ter:	Failure to comply with 10 CFR 71.12 and Certificate of Compliance A non-cited violation was identified for the failure to comply with 10 CFR 71.12 and the required certificate of compliance for a radioactive waste shipment to a disposal facility.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
01/01/2000	1999008-03	Pri: PLTSUP Sec:	Licensee	NCV	Pri: 1C Sec: Ter:	Failure to secure a vital area portal by lock or security personnel A non-cited violation was identified for the failure to secure a vital area portal by lock or security personnel.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
11/20/1999	1999007	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	Preparation, Packaging and Transportation of Solid Waste (BPRAs) Licensee procedures and documents reviewed for the preparation, packaging and transportation of the solid waste disposal of the burnable poison rod assemblies (BPRAs) met licensee and regulatory requirements for controlling solid radioactive materials. BPRA processing was efficient and performed in accordance with approved procedures. Radiological protection controls were appropriate for the radiological conditions and hazards associated with the process.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
11/20/1999	1999007	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: 2A Ter:	Waste Gas Treatment and Post Accident Sampling System The waste gas treatment system was adequately maintained and capable of performing functions described in the licensee's Updated Final Safety Analysis Report. Operability of the Post Accident Sampling System was demonstrated. The staff demonstrated appropriate proficiency in operating the Post Accident Sampling System equipment.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
10/09/1999	1999006	Pri: PLTSUP Sec:	NRC	NEG	Pri: 1C Sec: Ter:	Byproduct Particles Detected Outside of Radiological Controlled Area With the exception of a personnel contamination in the lower cavity resulting in a 14.4 rem extremity dose, contamination particles had not resulted in significant personnel exposures. On a number of occasions, byproduct particles were detected outside the radiological controlled area on worker's clothing and shoes. As a result, the last contamination barrier between licensee workers and the public (gamma detectors at the protected area exit portal) was being challenged.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
10/09/1999	1999006	Pri: PLTSUP Sec:	Self	NEG	Pri: 1C Sec: 3A Ter: 5A	Unplanned Personnel Radiological Exposure A radiography contractor's failure to identify and control high radiation boundaries during radiography resulted in unplanned personnel exposure to licensee personnel. In this case, no significant personnel exposures of more than 6 mrem occurred. Health Physics personnel missed an opportunity to prevent the unplanned exposure.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
10/09/1999	1999006	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	Management of ALARA Program Management of the ALARA program has been effective. Removal of radioactive material from the Unit 2 reactor coolant system prior to the refueling outage allowed the licensee to reduce their collective dose goals for the Unit 2 refueling outage and the 1999 calendar year.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
08/28/1999	1999005	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	Security Facilities and Equipment The testing and maintenance program for security related equipment met the requirements specified in the Physical Security Plan (PSP). Compensatory measures required by the PSP were implemented effectively. Revision 5 to the PSP met the requirements of 10 CFR 50.54(p).
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
08/28/1999	1999005	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: 3B Ter:	Security Training and Qualification Observed weapons requalification met the requirements of the Training and Qualification Plan. The licensee is conducting enhanced training in this area to assist officers to better respond to contingencies.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
07/17/1999	1999004	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	Radioactive Effluent Control Program The consistently low doses from the plant effluents, relative to regulatory limits, were indicative of overall good performance by the licensee's effluent control program. The licensee had maintained an effective program for the control of liquid and gaseous radioactive effluents from the plant.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
07/17/1999	1999004	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	Radiological Environmental Monitoring Program The licensee conducted an effective program for monitoring radioactivity in the surrounding environment that met regulatory requirements. The dose consequences of radioactivity levels found in the environment were well below regulatory limits.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
07/17/1999	1999004	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: 2B Ter:	Radiological Effluent Monitors & Radiation Monitoring Training Effluent instrumentation calibrations were performed in accordance with applicable procedures. The training courses provided to plant staff for maintenance and operation of the effluent monitoring instrumentation were adequate. The calibration procedures for the A and B stack monitors were sufficient to calibrate the instrumentation.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
06/05/1999	1999003	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	Emergency Preparedness Drill Observations An off-hours emergency plan drill was properly performed. Operators exhibited command and control, properly classified the event, and notified off-site agencies during the initial phases of the drill. The initial call-out of responders was effective as evidenced by their timely response to the site. Information flow between the various control centers was evident by the proper assignment of drill priorities.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
06/05/1999	1999003	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: 2A Ter:	Self-Contained Breathing Apparatus Inspection Material condition of the self-contained breathing apparatus used for the plant's fire brigade was good. There was sufficient breathing air onsite and fire protection equipment was properly staged to accommodate the fire brigade's needs.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
04/24/1999	1999002	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: 3C Ter:	Technical Support Center (TSC) Manning and Condition of Workstations Command and control of technical support center (TSC) operations during a drill was good as evidenced by effective briefings and management of drill priorities. Communications between TSC work groups was appropriate. Work stations were properly manned and in good working order.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
03/13/1999	1999001	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	Inspection of Fire Brigade Equipment Personal protective fire fighting equipment provided to the fire brigade was in good condition and provided a sufficient level of personal safety needed for onsite fire emergencies. Backup lighting in the dressout areas provided an adequate level of lighting in support of fire brigade operations.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
03/13/1999	1999001	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	Fire Brigade Pre-fire Strategies Fire brigade pre-fire strategies provided clear and sufficient instructions and met the requirements of the fire protection program.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
03/13/1999	1999001	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: 2A Ter:	Combustible Material and Housekeeping Controls/Fire Hazards Reduction Implementation of the fire protection program requirements for control of combustible fire hazards was good. Plant personnel followed combustible control procedures to manage the use and temporary storage of transient combustibles in safety-related areas. Plant housekeeping and trash control were in accordance with procedure requirements. The licensee's administrative controls for ignition source control were being implemented in accordance with the fire protection program.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
03/13/1999	1999001	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: 5A Ter:	Fire Brigade Drill Program Fire drill critique data indicated that the fire brigade's response time and performance were good. All the fire brigade members were at the fire drill site and ready to attack the fire in an average of ten minutes.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						
03/13/1999	1999001	Pri: PLTSUP Sec:	NRC	POS	Pri: 2A Sec: 1C Ter: 5C	Fire Reports and Investigations Eleven incidents of smoke or equipment overheating were identified in the past three years which were caused by electrical component faults within safety-related areas. These fire related conditions were properly identified and mitigating actions were taken in a timely manner. No trends were identified.
Dockets Discussed: 05000338 North Anna 1 05000339 North Anna 2						

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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

ID Codes:

NRC	NRC
Self	Self-Revealed
Licensee	Licensee

Functional Areas:

OPS	Operations
MAINT	Maintenance
ENG	Engineering
PLTSUP	Plant Support
OTHER	Other

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.