

United States Nuclear Regulatory Commission PLANT ISSUE MATRIX

By Primary Functional Area

Region III
 DUANE ARNOLD

Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
01/09/2000	1999015	Pri: OPS Sec:	NRC	POS	Pri: 1A Sec: Ter:	Operators performed startup activities in a controlled and deliberate manner. Operators performed startup activities in a controlled and deliberate manner. The inspectors noted that operators responded appropriately when a control rod double-notched and when several control rods would not withdraw using normal control rod drive pressure.
Dockets Discussed: 05000331 Duane Arnold						
01/05/2000	1999015	Pri: OPS Sec:	NRC	POS	Pri: 1B Sec: Ter:	The inspectors noted that the operators responded appropriately to an automatic reactor scram. The inspectors noted that the operators responded appropriately to an automatic reactor scram. Several equipment problems occurred during the scram and challenged the operators. These problems were properly addressed prior to startup. The inspectors found the licensee's review of the scram adequate prior to restarting the plant.
Dockets Discussed: 05000331 Duane Arnold						
12/21/1999	1999014	Pri: OPS Sec:	NRC	NEG	Pri: 1A Sec: Ter:	The inspectors identified that licensee personnel needed additional guidance for using the Action Request system. The inspectors identified that licensee personnel needed additional guidance for using the Action Request system and the Work Request Card system. This was determined when inspectors identified suspect wiring to a relief valve bellows pressure sensing monitor. Confusion existed on whether to use the Action Request system or the Work Request Card system for evaluation and resolution.
Dockets Discussed: 05000331 Duane Arnold						
12/21/1999	1999014	Pri: OPS Sec:	NRC	POS	Pri: 1A Sec: Ter:	Operators performed an error-free startup in a controlled and deliberate manner. Operators performed an error-free startup in a controlled and deliberate manner. The inspectors noted that operators responded appropriately when a maintenance activity caused a reactor pressure and water level perturbation.
Dockets Discussed: 05000331 Duane Arnold						
12/21/1999	1999014	Pri: OPS Sec:	NRC	POS	Pri: 1A Sec: Ter:	The inspectors noted improved performance from the last refueling outage for the licensee's closeout of the primary containment drywell. The inspectors noted improved performance from the last refueling outage for the licensee's closeout of the primary containment drywell. The inspectors identified fibrous materials used in drywell penetrations that Nuclear Reactor Regulation inspectors will review and assess in their plant evaluation report on the licensee's response to Bulletin 96-03.
Dockets Discussed: 05000331 Duane Arnold						
11/10/1999	1999012	Pri: OPS Sec:	NRC	NEG	Pri: 1A Sec: Ter:	The inspectors identified that no Action Request was initiated for an unexpected main turbine vibration alarm. However, the inspectors identified that no Action Request was initiated for an unexpected main turbine vibration alarm. On-shift operators subsequently initiated procedure changes for procedure deficiencies noted with plant conditions for main turbine over-speed testing and turbine load-set adjustment.
Dockets Discussed: 05000331 Duane Arnold						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
11/10/1999	1999012	Pri: OPS Sec:	NRC	STR	Pri: 1A Sec: Ter:	The inspectors noted that the work control center was more effective than the previous refueling outage in cc The inspectors noted that the work control center was more effective than the previous refueling outage in coordinating work activities. The inspectors observed conservative decision making by operations management to defer turbine surveillance testing until startup from the refueling outage rather than wait for procedure revisions and challenge operators to place the plant in the proper conditions.
Dockets Discussed: 05000331 Duane Arnold						
10/15/1999	1999302	Pri: OPS Sec:	NRC	POS	Pri: 1C Sec: Ter:	The procedures reviewed by the examiners were well written. With one exception, the procedures reviewed by the examiners were well written. The station's operators were normally able to use the provided procedures correctly.
Dockets Discussed: 05000331 Duane Arnold						
10/15/1999	1999302	Pri: OPS Sec:	NRC	POS	Pri: 1C Sec: Ter:	The facility training staff developed a written examination and operating test that could be used to evaluate : The facility training staff developed a written examination and operating test that could be used to evaluate an applicant with a minimum of revision by the NRC examiners.
Dockets Discussed: 05000331 Duane Arnold						
10/15/1999	1999302	Pri: OPS Sec:	NRC	POS	Pri: 1C Sec: Ter:	The applicants were well prepared for the operating test and written examination. The applicants were well prepared for the operating test and written examination. In general, they displayed good operating and communications skills during the operating test. The facility training staff was well prepared to support the examination process.
Dockets Discussed: 05000331 Duane Arnold						
07/25/1999	1999009-01	Pri: OPS Sec:	Licensee	NCV	Pri: 3A Sec: Ter:	FAILURE TO LOG ENTRY INTO A TS LCO Based on a lack of understanding of the Technical Specification (TS), an operating crew failed to recognize the need to log and enter a TS limiting condition for operation when power was lost to the drywell sump pump level switches, which rendered the reactor containment leakage detection system inoperable.
Dockets Discussed: 05000331 Duane Arnold						
07/09/1999	1999009	Pri: OPS Sec:	NRC	NEG	Pri: 1A Sec: Ter:	Due to miscommunications during the shift turnovers, on-coming operating crews were not following through The licensee appropriately determined that the reactor containment leakage system was operational even though the drywell floor drain sump pump was not functioning. However, due to miscommunications during the shift turnovers, on-coming operating crews were not following through with instructions to track the daily reactor containment unidentified leakage.
Dockets Discussed: 05000331 Duane Arnold						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
07/07/1999	1999007	Pri: OPS Sec:	NRC	POS	Pri: 3A Sec: Ter:	The plant shutdown and startup in support of the forced outage for repairs to the primary containment electrical penetration repairs were well controlled evolutions. Good teamwork was noted between the various licensee departments to support the maintenance activities. The shutdown to repair the penetration conductors demonstrated a conservative plant operating philosophy.
Dockets Discussed: 05000331 Duane Arnold						
07/07/1999	1999007-01	Pri: OPS Sec:	NRC	NCV	Pri: 3A Sec: Ter:	FAILURE TO ENTER THE PROPER TS LCO CONDITION AFTER DECLARING THE PCIV INOPERABLE On two occasions operating crews did not enter the appropriate Technical Specification limiting condition for operation (LCO). On May 24, 1999, the licensee entered the wrong LCO when a reactor recirculation mini-purge isolation valve failed to close and was declared inoperable. A Non-Cited Violation for failing to log the appropriate LCO. Also, on June 23, 1999, the inspectors identified that the proper 72-hour Technical Specification LCO was not entered for having a low pressure emergency core cooling system and the high pressure coolant injection system inoperable during surveillance testing.
Dockets Discussed: 05000331 Duane Arnold						
07/07/1999	1999007-02	Pri: OPS Sec: ENG	Licensee	NCV	Pri: 4A Sec: Ter:	FAILURE OF THE CONTROL BUILDING CHILLER TO MEET TS OPERABILITY REQUIREMENTS In September 1998, the "A" control building chiller was declared inoperable due to the licensee's determination that the "A" cooling coil chill water control valve's air supply was not from a safety-related source. Technical Specification 3.7.5 required that with one control building chiller subsystem inoperable, that the subsystem be returned to operable status within 30 days. This condition was believed to have existed since initial startup. Therefore, a Non-Cited Violation resulted from the failure to meet Technical Specification requirements.
Dockets Discussed: 05000331 Duane Arnold						
06/04/1999	1999301	Pri: OPS Sec:	NRC	POS	Pri: 1C Sec: Ter:	The licensee administered the written retake examination in accordance with appropriate guidance and submitted the appropriate administration documentation. The examiner did not identify any examination compromise issues.
Dockets Discussed: 05000331 Duane Arnold						
06/04/1999	1999301	Pri: OPS Sec:	NRC	POS	Pri: 1C Sec: Ter:	The licensee satisfactorily performed post examination activities. The licensee satisfactorily performed post examination activities including final grading and review of applicant clarification comments in accordance with appropriate guidance.
Dockets Discussed: 05000331 Duane Arnold						
06/04/1999	1999301	Pri: OPS Sec:	NRC	WK	Pri: 1C Sec: Ter:	A high number of questions (21) submitted to the NRC did not meet NUREG-1021, Operator Licensing Examination Standards for Power Reactors, Interim Revision 8, guidance demonstrated opportunities for improvement in the licensee's examination writing skills and knowledge. The high number of questions (21) submitted to the NRC that did not meet NUREG-1021, Operator Licensing Examination Standards for Power Reactors, Interim Revision 8, guidance demonstrated opportunities for improvement in the licensee's examination writing skills and knowledge.
Dockets Discussed: 05000331 Duane Arnold						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
05/25/1999	1999004	Pri: OPS Sec:	NRC	NEG	Pri: 1A Sec: Ter:	Slight decline in the use of three-way communications and panel attentiveness by operators during routine o The inspectors noted a slight decline in the use of three-way communications and panel attentiveness by operators during routine operations. The licensee's initial corrective actions appeared effective.
Dockets Discussed: 05000331 Duane Arnold						
05/25/1999	1999004	Pri: OPS Sec:	NRC	NEG	Pri: 1C Sec: Ter:	Minor discrepancy was corrected by operations management after the inspectors found a degraded sticker o The inspectors noted that degraded equipment and instrumentation were evaluated monthly or quarterly as required per procedures. One minor discrepancy was corrected by operations management after the inspectors found a degraded sticker on the control room panel gauge that had been previously repaired.
Dockets Discussed: 05000331 Duane Arnold						
05/25/1999	1999004	Pri: OPS Sec:	NRC	POS	Pri: 3A Sec: Ter:	Operations personnel were effective in performing an error-free shutdown to identify and repair an intermitt The inspectors determined that operations personnel were effective in performing an error-free shutdown to identify and repair an intermittent main generator field ground alarm.
Dockets Discussed: 05000331 Duane Arnold						
03/25/1999	1999003	Pri: OPS Sec: ENG	NRC	NEG	Pri: 1A Sec: Ter:	The licensee conducted the SBLC test as a routine evolution knowing previous testing problems existed. Also The licensee conducted the standby liquid control pump operability test as a routine evolution knowing that previous testing problems existed. Also, operations personnel considered the high pressure coolant injection system discharge pressure momentarily pegging the gauge at 1500 psig as an expected condition, which the system engineer later clarified was not the case. These problems were not documented in the surveillance test procedures or covered in the pre-test briefs
Dockets Discussed: 05000331 Duane Arnold						
03/15/1999	1999003	Pri: OPS Sec:	NRC	POS	Pri: 1A Sec: Ter:	Operators performed an error-free power reduction on March 13 through 15, 1999, and safety-conscious ope The inspectors noted that operations personnel effectively communicated operational information and were knowledgeable of plant and equipment status. Operators performed an error-free power reduction on March 13 through 15, 1999, for a control rod sequence exchange and main turbine bypass valve testing. Also, the inspectors noted safety-conscious operator performance during the power reduction for the main generator field ground.
Dockets Discussed: 05000331 Duane Arnold						
02/22/1999	1999001	Pri: OPS Sec:	NRC	POS	Pri: 1A Sec: Ter:	The onshift crew responded appropriately to the potential inoperability of SFU trains. Also, ops managemen The inspectors noted the onshift operations crew responded appropriately to the potential inoperability of both control room standby filter unit trains. Also, onshift operations management conservatively viewed the momentary inoperability of both standby gas treatment system trains as being reportable.
Dockets Discussed: 05000331 Duane Arnold						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
02/21/1999	1999001	Pri: OPS Sec:	NRC	POS	Pri: 1A Sec: Ter:	Operators responded conservatively to a main steam tunnel high temperature alarm by maintaining reactor p Operators responded conservatively to a main steam tunnel high temperature alarm by maintaining reactor power at reduced levels until the problem was resolved.
Dockets Discussed: 05000331 Duane Arnold						
01/05/2000	1999015-02	Pri: MAINT Sec:	NRC	NCV	Pri: 3B Sec: Ter:	INADEQUATE PROCEDURE FOR VALVING IN REACTOR VESSEL LEVEL TRANSMITTER During surveillance testing of the remote shutdown panel level transmitter, I&C technicians inadvertently initiated an automatic reactor scram. A Non-Cited Violation was identified for an inadequate surveillance test procedure. Failure to adequately self-check on the part of the technicians was another contributing factor to the scram.
Dockets Discussed: 05000331 Duane Arnold						
12/21/1999	1999014	Pri: MAINT Sec:	NRC	NEG	Pri: 1A Sec: Ter:	Several minor personnel performance issues occurred during the latter half of the refueling outage due to in: Several minor personnel performance issues occurred during the latter half of the refueling outage due to inattention to detail. Also, the weld overlay work for the reactor recirculation jet pump inlet nozzles caused damage to surrounding equipment that challenged plant operators during the startup.
Dockets Discussed: 05000331 Duane Arnold						
12/21/1999	1999014	Pri: MAINT Sec:	NRC	NEG	Pri: 1A Sec: Ter:	The licensee's corrective actions to properly re-install wiring pulled from the junction box supplying power t The licensee's corrective actions to properly re-install wiring pulled from the junction box supplying power to relief valve PSV 4402 prior to the relief valve lifting was inadequate. Electrical maintenance technicians failed to examine wiring inside the junction box or conduit box.
Dockets Discussed: 05000331 Duane Arnold						
12/21/1999	1999014	Pri: MAINT Sec:	NRC	POS	Pri: 1A Sec: Ter:	Overall, improvement was noted in the conduct of maintenance activities from the previous refueling outage Overall, improvement was noted in the conduct of maintenance activities from the previous refueling outage. Licensee performance in planning and scheduling improved since the last outage.
Dockets Discussed: 05000331 Duane Arnold						
12/21/1999	1999014	Pri: MAINT Sec:	NRC	POS	Pri: 1A Sec: Ter:	The inspectors found that the licensee had followed an approved methodology for troubleshooting electrical The inspectors found that the licensee had followed an approved methodology for troubleshooting electrical grounds in the wiring for main steam line relief valve PSV 4402, which spuriously lifted during troubleshooting.
Dockets Discussed: 05000331 Duane Arnold						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
11/10/1999	1999012	Pri: MAINT Sec:	NRC	NEG	Pri: 3A Sec: Ter:	Several minor personnel performance issues occurred during the first several weeks of the outage due to communication problems and inattention to detail. Although human performance concerns occurred during the beginning of this outage, the severity and magnitude of the problems were less significant than last outage. Licensee performance in planning, scheduling, coordination, and contractor controls has improved since last outage.
Dockets Discussed: 05000331 Duane Arnold						
11/10/1999	1999012	Pri: MAINT Sec:	NRC	POS	Pri: 1A Sec: Ter:	There was a noticeable improvement overall in the conduct of maintenance activities from the previous refueling outage. Presently, there have been few significant issues during the refueling outage.
Dockets Discussed: 05000331 Duane Arnold						
08/29/1999	1999011	Pri: MAINT Sec:	NRC	NEG	Pri: 1C Sec: Ter:	The inspectors identified a contractor control issue during the spent fuel pool characterization survey work, and emergent equipment problems were noted during the "A" standby emergency diesel generator maintenance outage.
Dockets Discussed: 05000331 Duane Arnold						
08/29/1999	1999011	Pri: MAINT Sec:	NRC	NEG	Pri: 2A Sec: 5C Ter:	The inspectors noted that several emergent equipment issues were repetitive, such as the hydrogen/oxygen containment analyzer pump problems, rectifier bank leaks, and the instrument air dryer power trips. The maintenance and engineering staffs continued to work with vendor representatives to determine long term corrective actions.
Dockets Discussed: 05000331 Duane Arnold						
08/19/1999	1999009	Pri: MAINT Sec:	NRC	POS	Pri: 3A Sec: Ter:	The inspectors observed good planning and execution of maintenance activities for the "B" core spray and reactor core isolation cooling system maintenance outages.
Dockets Discussed: 05000331 Duane Arnold						
07/07/1999	1999007	Pri: MAINT Sec:	NRC	POS	Pri: 1C Sec: Ter:	The repairs for the shorted conductors in the primary containment electrical penetration 1JX105A were well planned and executed.
Dockets Discussed: 05000331 Duane Arnold						

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07/07/1999	1999007	Pri: MAINT Sec:	NRC	POS	Pri: 3A Sec: Ter:	One minor error due to lack of attention to detail introduced during planning and which was also missed dur One minor error due to lack of attention to detail introduced during planning and which was also missed during restoration of a conductor; however, the overall repair activities to electrical penetration 1JX105A were completed satisfactorily.
Dockets Discussed: 05000331 Duane Arnold						
05/25/1999	1999004	Pri: MAINT Sec:	NRC	POS	Pri: 3A Sec: Ter:	The licensee was effective in troubleshooting and repairing the intermittent main generator field ground alar The licensee was effective in troubleshooting and repairing the intermittent main generator field ground alarm and the hydrogen/oxygen monitor trouble alarm
Dockets Discussed: 05000331 Duane Arnold						
05/25/1999	1999004-01	Pri: MAINT Sec:	Licensee	NCV	Pri: 3A Sec: Ter:	FAILURE TO MEET TS IN RESTORING THE SBLC SYSTEM In May 1998, improper planning caused the licensee to replace the standby liquid control system explosive valves without performing the required post replacement testing. This was not identified until after the standby liquid control system was returned to service and the reactor coolant temperature reached 212 degrees Fahrenheit. Therefore, a Non-Cited Violation resulted from the failure to properly restore or isolate the standby liquid control system valves prior to reaching the reactor coolant temperature of 212 degrees Fahrenheit.
Dockets Discussed: 05000331 Duane Arnold						
04/01/1999	1999003	Pri: MAINT Sec:	Licensee	POS	Pri: 3A Sec: Ter:	The licensee was effective in determining that a failed coil for a solenoid valve resulted in the off-gas system The licensee was effective in determining that a failed coil for a solenoid valve resulted in the off-gas system flow isolation. The coil was replaced and the off-gas system was restored to normal operation
Dockets Discussed: 05000331 Duane Arnold						
02/22/1999	1999001	Pri: MAINT Sec:	NRC	POS	Pri: 3A Sec: Ter:	Observant instrumentation and control technicians noted that the air flow indicating controller was not readir Observant instrumentation and control technicians noted that the air flow indicating controller was not reading accurately on the "A" standby gas treatment system while calibrating the "B" train.
Dockets Discussed: 05000331 Duane Arnold						
02/21/1999	1999001	Pri: MAINT Sec: ENG	NRC	NEG	Pri: 3A Sec: Ter:	Maintenance personnel lacked a definitive plan to address the longstanding problem of the resistor failures i Initial response from the various maintenance department personnel was viewed as timely and appropriate for repairs to the failed resistor in the logic circuitry for the main steam tunnel high temperature alarm. However, maintenance personnel lacked a definitive plan to address the longstanding problem of the resistor failures.
Dockets Discussed: 05000331 Duane Arnold						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
02/08/1999	1999001	Pri: MAINT Sec: ENG	NRC	NEG	Pri: 2B Sec: Ter:	The inspectors identified several ambiguous Technical Specification required steps prior to standby gas treat The inspectors identified several ambiguous Technical Specification required steps prior to standby gas treatment system efficiency testing. The licensee failed to recognize the subtle differences in testing requirements from the previous and current Technical Specification requirements. The licensee corrected the steps prior to conducting the testing.
Dockets Discussed: 05000331 Duane Arnold						
01/01/2000	1999015	Pri: ENG Sec:	NRC	POS	Pri: 1C Sec: Ter:	The licensee's Year 2000 readiness review program was shown to have been effective based on the uneventfu The licensee's Year 2000 readiness review program was shown to have been effective based on the uneventful roll-over period observed by the inspectors.
Dockets Discussed: 05000331 Duane Arnold						
12/21/1999	1999014	Pri: ENG Sec:	NRC	NEG	Pri: 1A Sec: Ter:	There were problems in positioning of the weld overlay for the N2B riser due to drawings that had not receiv There were problems in positioning of the weld overlay for the N2B riser due to drawings that had not received an adequate engineering review.
Dockets Discussed: 05000331 Duane Arnold						
12/21/1999	1999014	Pri: ENG Sec:	NRC	NEG	Pri: 1A Sec: Ter:	The inspectors determined that due to a lack of attention to detail, the engineering staff did not adequately ac The inspectors determined that due to a lack of attention to detail, the engineering staff did not adequately address high pressure coolant injection operability concerns using the Action Request system.
Dockets Discussed: 05000331 Duane Arnold						
12/21/1999	1999014	Pri: ENG Sec:	NRC	POS	Pri: 1A Sec: Ter:	In general, the significant emergent work item of the refueling outage of planning and performing the weld o In general, the significant emergent work item of the refueling outage of planning and performing the weld overlay for the reactor recirculation risers was conducted well.
Dockets Discussed: 05000331 Duane Arnold						
11/10/1999	1999012-01	Pri: ENG Sec:	NRC	NCV	Pri: 3A Sec: Ter:	TWO SURVEILLANCE TEST PROCEDURES NOT REVISED TO REFLECT ITS. The inspectors identified two surveillance test procedures that were not revised to reflect the Improved Technical Specifications. Specifically, the emergency service water system would have been declared inoperable before reaching the Technical Specification requirement for the ultimate heat sink temperature of 95 Fahrenheit. Failure to revise the procedures was considered a Non-Cited Violation
Dockets Discussed: 05000331 Duane Arnold						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
11/10/1999	1999012	Pri: ENG Sec: MAINT	NRC	NEG	Pri: 4B Sec: Ter:	The inspectors noted that adequate monitoring to prevent reactor vessel thermal stratification had not been implemented. The inspectors noted that adequate monitoring to prevent reactor vessel thermal stratification had not been implemented. The licensee subsequently developed a log for use by on-shift operations personnel.
Dockets Discussed: 05000331 Duane Arnold						
11/10/1999	1999012	Pri: ENG Sec: OPS	NRC	POS	Pri: 4B Sec: Ter:	Overall, the licensee's plan for removing both shutdown cooling trains from service and ensuring adequate alternate decay heat removal methods were thorough. Overall, the licensee's plan for removing both shutdown cooling trains from service and ensuring adequate alternate decay heat removal methods were thorough. However, the inspectors noted that adequate monitoring to prevent reactor vessel thermal stratification had not been implemented. The licensee subsequently developed a log for use by on-shift operations personnel.
Dockets Discussed: 05000331 Duane Arnold						
09/30/1999	1999011	Pri: ENG Sec: OTHER	NRC	NEG	Pri: 2B Sec: 4B Ter:	The inspectors noted minor technical support deficiencies with the licensee's safety eval.and TRMCR for removal of the requirement that the residual heat removal service water system heat exchanger was not needed to ensure operability of the containment spray systems. The inspectors noted some minor technical support deficiencies with the licensee's safety evaluation and Technical Requirements Manual Change Revision for removal of the requirement that the residual heat removal service water system heat exchanger was not needed to ensure operability of the containment spray systems.
Dockets Discussed: 05000331 Duane Arnold						
08/19/1999	1999009	Pri: ENG Sec:	NRC	POS	Pri: 4B Sec: Ter:	The responsible system engineer was pro-active in trending and making preparations for potential flooding from the Cedar River, the plant's ultimate heat sink. The responsible system engineer was pro-active in trending and making preparations for potential flooding from the Cedar River, the plant's ultimate heat sink.
Dockets Discussed: 05000331 Duane Arnold						
07/07/1999	1999007	Pri: ENG Sec:	NRC	NEG	Pri: 1C Sec: Ter:	The engineering evaluation for the installation of the modified pump test return line throttle valve was deficient. The engineering evaluation for the installation of the modified pump test return line throttle valve, V33-0156, was deficient. The evaluation contained an incorrect description of how the general service water system strainer system operated. The amount and type of debris in the water was underestimated. The hole size for replacement valve V33-0156 was less than the strainer hole size for the pump and the cooling tower; therefore, V33-0156 acted as a strainer. Also, the engineering evaluation lacked adequate documentation to support its conclusions.
Dockets Discussed: 05000331 Duane Arnold						
07/01/1999	1999005	Pri: ENG Sec:	NRC	NEG	Pri: 4B Sec: Ter:	Calculations at times lacked documentation to support how the conclusions were reached. The methods used in performing and revising design calculations for recent design changes were found to be correct and appropriate. The inspectors concluded that, while the final numerical results were acceptable, calculations at times lacked documentation to support how the conclusions were reached. This was considered a calculation control weakness by the inspectors.
Dockets Discussed: 05000331 Duane Arnold						

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07/01/1999	1999005	Pri: ENG Sec:	NRC	NEG	Pri: 4C Sec: Ter:	Several EMA applicability reviews inconsistently referenced the type of documents reviewed. 10 CFR 50.59 applicability reviews and safety evaluations were thorough and appropriate for the plant changes reviewed. However, the inspectors identified (Section E1.1.b.3) several EMA applicability reviews that inconsistently referenced the type of documents reviewed. The inspectors did not identify any unreviewed safety questions for the plant changes reviewed.
Dockets Discussed: 05000331 Duane Arnold						
07/01/1999	1999005	Pri: ENG Sec:	NRC	NEG	Pri: 4C Sec: Ter:	The licensee did not include seven (7) updated UFSAR sections with the update letter submitted to the NRC on The inspectors identified that the licensee did not include seven (7) updated UFSAR sections with the update letter submitted to the NRC on November 19, 1998. However, the licensee was within the 10 CFR 50.71(e)(4) 24 month window to complete the update. The current plant UFSAR was updated July 15,1999. This was considered a UFSAR update weakness by the inspectors.
Dockets Discussed: 05000331 Duane Arnold						
07/01/1999	1999005	Pri: ENG Sec:	NRC	POS	Pri: 4A Sec: Ter:	The methods used to control design changes were effective. The inspectors concluded that the methods used to control design changes were effective. In general, design changes were designed, installed and tested in an acceptable manner. Design configuration controls were maintained throughout the modification process. System Engineering Change Packages (ECPs) were complete and of good technical quality.
Dockets Discussed: 05000331 Duane Arnold						
07/01/1999	1999005	Pri: ENG Sec:	NRC	POS	Pri: 4B Sec: Ter:	The licensee was safety conscious in electing to shutdown the plant for the degraded electrical penetration c The inspectors concluded that the licensee was safety conscious in electing to shutdown the plant for the degraded electrical penetration condition and to restore the plant's design configuration. In addition, the troubleshooting plan was well thought out and the post modification testing was good.
Dockets Discussed: 05000331 Duane Arnold						
07/01/1999	1999005	Pri: ENG Sec:	NRC	POS	Pri: 4C Sec: Ter:	Acceptable engineering staff interface and support was provided during the modification process. The inspectors concluded that acceptable engineering staff interface and support was provided during the modification process, and that final modification closeout packages were completed in a timely manner.
Dockets Discussed: 05000331 Duane Arnold						
07/01/1999	1999005	Pri: ENG Sec:	NRC	POS	Pri: 4C Sec: Ter:	The industry information reviewed had appropriate corrective actions initiated. The inspectors concluded that the methods used to obtain and disposition industry operating experience were effective. The industry information reviewed had appropriate corrective actions initiated.
Dockets Discussed: 05000331 Duane Arnold						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
07/01/1999	1999005	Pri: ENG Sec:	NRC	POS	Pri: 5A Sec: 5C Ter: 5B	A good corrective action program. Root cause investigations were accurate and thorough. The inspectors concluded that the actions taken once a problem was identified were indicative of a good corrective action program. The majority of plant problems were identified, assessed, and had appropriate corrective actions assigned. (Section E7.1) Root cause investigations were accurate and thorough. In addition, the licensee's trending program and effectiveness reviews contributed to identifying repetitive problems.
Dockets Discussed: 05000331 Duane Arnold						
07/01/1999	1999005	Pri: ENG Sec:	NRC	POS	Pri: 5B Sec: Ter:	The licensee's operability determination process was effective. The licensee's operability determination process was effective. The operability determinations and supporting evaluations were acceptable and contained sufficient detail.
Dockets Discussed: 05000331 Duane Arnold						
07/01/1999	1999005-01	Pri: ENG Sec:	NRC	NCV	Pri: Sec: Ter:	INADEQUATE DESIGN CONTROL. Component level Engineering Maintenance Action (EMA) modifications were generally found acceptable, however, the inspectors concluded that several component level modifications contained inconsistent review documentation. One component level modification installed a B recirculation pump motor snubber that contained the wrong oil. The installed snubber did not meet the current drywell radiation design basis. Based on the licensee's corrective actions, a Non-Cited Violation was assessed.
Dockets Discussed: 05000331 Duane Arnold						
07/01/1999	1999005-02	Pri: ENG Sec:	NRC	NCV	Pri: 4B Sec: Ter:	INADEQUATE CORRECTIVE ACTIONS. The licensee did not take appropriate corrective actions to control scaffolding installed near safety related equipment. Based on the licensee's corrective actions, a non-cited violation was assessed.
Dockets Discussed: 05000331 Duane Arnold						
06/12/1999	1999009	Pri: ENG Sec:	NRC	POS	Pri: 4B Sec: Ter:	The inspectors determined that the replacement and relocation of the standby liquid control system injection The inspectors determined that the replacement and relocation of the standby liquid control system injection isolation drain valve, V26-0020, was adequately performed. The licensee provided sufficient documentation to support the installation, relocation, and post-maintenance testing
Dockets Discussed: 05000331 Duane Arnold						
05/25/1999	1999004	Pri: ENG Sec:	NRC	POS	Pri: 3A Sec: Ter:	System engineering staff were effective in ensuring flood control materials and equipment were staged and System engineering staff were effective in ensuring flood control materials and equipment were staged and available prior to the river water level reaching the flood stage.
Dockets Discussed: 05000331 Duane Arnold						

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By Primary Functional Area

Region III
 DUANE ARNOLD

Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
03/17/1999	1999003	Pri: ENG Sec:	NRC	NEG	Pri: 2A Sec: 5C Ter:	The licensee identified the problem (SBLC , incorrect type throttling valve) in January 1997, and delayed its e The licensee momentarily exceeded the Updated Final Safety Analysis Report standby liquid control pump discharge pressure limit during surveillance testing. The root cause was the less than desirable use of a gate valve to throttle discharge pressure. The licensee identified the problem in January 1997, and delayed its efforts to fix the problem based on a cost benefit analysis. The licensee subsequently decided to install a globe valve during the next refueling outage to fix the throttling problem.
Dockets Discussed: 05000331 Duane Arnold						
03/14/1999	1999003	Pri: ENG Sec: MAINT	NRC	POS	Pri: 4B Sec: Ter:	Engineering and maintenance personnel were effective in identifying and temporarily fixing the source of ex Engineering and maintenance personnel were effective in identifying and temporarily fixing the source of excess off-gas flow.
Dockets Discussed: 05000331 Duane Arnold						
03/07/1999	1999003	Pri: ENG Sec:	NRC	NEG	Pri: 4B Sec: Ter:	The "A" reactor water cleanup pump bearing failed due to an inadequate modification which provided insuff The "A" reactor water cleanup pump bearing failed due to an inadequate modification which provided insufficient oil.
Dockets Discussed: 05000331 Duane Arnold						
02/21/1999	1999001	Pri: ENG Sec: MAINT	NRC	NEG	Pri: 4B Sec: Ter:	The failure of the Group one logic circuitry has been a longstanding problem with no specific corrective actio The failure of the Group one logic circuitry has been a longstanding problem with no specific corrective action proposed.
Dockets Discussed: 05000331 Duane Arnold						
02/09/1999	1999001	Pri: ENG Sec:	NRC	NEG	Pri: 4B Sec: Ter:	The system engineer performed an inadequate initial operability evaluation on the "B" SFU differential pressu The system engineer performed an inadequate initial operability evaluation on the "B" standby filter unit differential pressure switch function, which resulted in operators initiating an unnecessary plant shutdown.
Dockets Discussed: 05000331 Duane Arnold						
12/21/1999	1999014	Pri: PLTSUP Sec:	NRC	POS	Pri: 1A Sec: Ter:	Workers effectively minimized their accumulated dose and minimized the spread of contamination while perf Workers effectively minimized their accumulated dose and minimized the spread of contamination while performing maintenance on the crack arrest verification system.
Dockets Discussed: 05000331 Duane Arnold						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
11/17/1999	1999013	Pri: PLTSUP Sec:	NRC	NEG	Pri: 1A Sec: Ter:	The pre-job briefings provided to quality control inspectors prior to inspections of the N2B recirculation nozzle The pre-job briefings provided to quality control inspectors prior to inspections of the N2B recirculation nozzle were not adequate and resulted in 600 millirem of unnecessary dose. In addition, a fact finding meeting held after the second entry had not fully established the "facts" about the first two entries before granting permission for the third entry, which may have contributed to this unnecessary dose.
Dockets Discussed: 05000331 Duane Arnold						
11/17/1999	1999013	Pri: PLTSUP Sec:	NRC	NEG	Pri: 1C Sec: Ter:	A potential generic issue involving the mishandling of contaminated trash had not been addressed in the corrective action program. A potential generic issue involving the mishandling of contaminated trash had not been addressed in the corrective action program.
Dockets Discussed: 05000331 Duane Arnold						
11/17/1999	1999013	Pri: PLTSUP Sec:	NRC	POS	Pri: 1A Sec: Ter:	The ALARA program was implemented effectively. The ALARA program was implemented effectively, as ALARA plans were well developed and sufficiently thorough. Dose reduction initiatives and associated engineering controls were properly established, and efforts to limit personnel contamination events were successful.
Dockets Discussed: 05000331 Duane Arnold						
11/17/1999	1999013	Pri: PLTSUP Sec:	NRC	POS	Pri: 1A Sec: Ter:	Source term reduction strategies continued to be implemented effectively. Source term reduction strategies continued to be implemented effectively.
Dockets Discussed: 05000331 Duane Arnold						
11/17/1999	1999013	Pri: PLTSUP Sec:	NRC	POS	Pri: 1A Sec: Ter:	Radworker performance met or exceeded management's expectations. Radworker performance met or exceeded management's expectations.
Dockets Discussed: 05000331 Duane Arnold						
11/17/1999	1999013	Pri: PLTSUP Sec:	NRC	POS	Pri: 1A Sec: Ter:	Radiological postings were well maintained and accurately reflected the area radiological conditions. Radiological postings were well maintained and accurately reflected the area radiological conditions. High and locked high radiation areas were controlled consistent with station procedures and regulatory requirements. Appropriate contamination control practices were used at job sites, resulting in fewer than expected contamination events.
Dockets Discussed: 05000331 Duane Arnold						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
11/17/1999	1999013	Pri: PLTSUP Sec:	NRC	POS	Pri: 1A Sec: Ter:	Outage staffing and training for the RP program was effective. Outage staffing and training for the RP program was effective. Training of the contract RP staff adequately prepared them for their assigned outage tasks.
Dockets Discussed: 05000331 Duane Arnold						
11/17/1999	1999013	Pri: PLTSUP Sec:	NRC	POS	Pri: 1A Sec: Ter:	Quality Assurance (QA) assessment activities for the outage were well planned and staffed by qualified individuals. Quality Assurance (QA) assessment activities for the outage were well planned and staffed by qualified individuals.
Dockets Discussed: 05000331 Duane Arnold						
11/17/1999	1999013	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	The radiation protection department was actively involved in the work planning process. The radiation protection department was actively involved in the work planning process. Implementation of dose reduction and ALARA initiatives kept dose well within outage goals. Good oversight of radiological activities contributed to maintaining outage dose reasonably low given the overall scope of work.
Dockets Discussed: 05000331 Duane Arnold						
11/17/1999	1999013	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	The ALARA program was implemented effectively. Dose reduction initiatives and associated engineering controls were properly established, and efforts to limit personnel contamination events were successful.
Dockets Discussed: 05000331 Duane Arnold						
11/17/1999	1999013	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	The outage RP organization's oversight contributed to the effectiveness of the program. The outage RP organization's oversight contributed to the effectiveness of the program.
Dockets Discussed: 05000331 Duane Arnold						
11/17/1999	1999013	Pri: PLTSUP Sec:	NRC	STR	Pri: 1C Sec: Ter:	Radiation protection (RP) staff oversight and control of radiological work, and management of RP resources for the outage were effective. Radiation protection (RP) staff oversight and control of radiological work, and management of RP resources for the outage were effective.
Dockets Discussed: 05000331 Duane Arnold						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
11/10/1999	1999012-02	Pri: PLTSUP Sec:	NRC	NCV	Pri: 3A Sec: Ter:	HP TECHNICIAN NOT PRESENT FOR SYSTEM BREECH. A lack of communication resulted in a maintenance worker breaching an internally contaminated valve without a radiation protection worker present. This resulted in a Non-Cited Violation for failing to follow radiation work permit requirements (Section R1.1).
Dockets Discussed: 05000331 Duane Arnold						
09/08/1999	1999011	Pri: PLTSUP Sec:	NRC	NEG	Pri: 3A Sec: Ter:	The inspectors observed a contract employee sleeping in a low dose area on the refuel floor. The inspectors observed a contract employee sleeping in a low dose area on the refuel floor. Work was being conducted in the general area where the individual slept and plant employees did not attempt to wake the person.
Dockets Discussed: 05000331 Duane Arnold						
08/12/1999	1999008	Pri: PLTSUP Sec:	NRC	NEG	Pri: 1C Sec: 2A Ter:	The justification for not calibrating those radiation monitors not required for emergency operating procedure The justification for not calibrating those radiation monitors not required for emergency operating procedures, regulatory guide 1.97, or criticality, was not well documented.
Dockets Discussed: 05000331 Duane Arnold						
08/12/1999	1999008	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	The ALARA planning and radiation work permit programs were effectively implemented. The ALARA planning and radiation work permit programs were effectively implemented. The health physics staff was actively involved in the work planning process to ensure that radiation protection goals and concerns were addressed.
Dockets Discussed: 05000331 Duane Arnold						
08/12/1999	1999008	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	The station was effectively implementing source term reduction initiatives, and planning and coordinating work The station was effectively implementing source term reduction initiatives, and planning and coordinating work to reduce overall station dose.
Dockets Discussed: 05000331 Duane Arnold						
08/12/1999	1999008	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	The licensee's portable radiation detection instrument calibration program was effectively implemented. The licensee's portable radiation detection instrument calibration program was effectively implemented. Instruments were calibrated in accordance with station procedures and at the required frequency.
Dockets Discussed: 05000331 Duane Arnold						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
08/12/1999	1999008	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	The audits and assessments were of sufficient scope and depth to identify deficiencies and areas where improvements were warranted. The audit plan was detailed and ensured that critical areas of the radiation protection program were reviewed during each operating cycle. The audits and assessments were of sufficient scope and depth to identify deficiencies and areas where improvements were warranted. Corrective actions to identify deficiencies were being effectively developed and implemented by the radiation protection staff.
Dockets Discussed: 05000331 Duane Arnold						
08/12/1999	1999008	Pri: PLTSUP Sec:	NRC	POS	Pri: 2B Sec: Ter:	The area radiation monitor calibration and maintenance program was adequately implemented. Personnel were knowledgeable regarding the instrumentation and calibration procedures. The area radiation monitor calibration and maintenance program was adequately implemented. Personnel were knowledgeable regarding the instrumentation and calibration procedures.
Dockets Discussed: 05000331 Duane Arnold						
08/12/1999	1999008	Pri: PLTSUP Sec:	NRC	POS	Pri: 3C Sec: Ter:	The radiological posting and control of facilities and equipment were effective. Radiological housekeeping was very good. Labeling of containers was effective. The radiological posting and control of facilities and equipment were effective. Radiological housekeeping was very good. Labeling of containers was effective.
Dockets Discussed: 05000331 Duane Arnold						
08/11/1999	1999008	Pri: PLTSUP Sec:	NRC	POS	Pri: 3A Sec: Ter:	Transfer of the spent resin high integrity container from the resin storage vault to the shipping cask was well planned and executed. The August 11, 1999, shipment of spent resin was in full compliance with NRC and DOT regulations. The August 11, 1999, transfer of the spent resin high integrity container from the resin storage vault to the shipping cask was well planned and executed. The August 11, 1999, shipment of spent resin was in full compliance with NRC and DOT regulations.
Dockets Discussed: 05000331 Duane Arnold						
08/06/1999	1999010	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	Emergency response facilities, equipment, and supplies were well-maintained. Emergency response facilities, equipment, and supplies were well-maintained. Demonstration of selected emergency response equipment verified that the equipment was operable. On-shift dose assessment capability was acceptable.
Dockets Discussed: 05000331 Duane Arnold						
08/06/1999	1999010	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	The Action Request System was an effective method to track and close EP issues. The Action Request System was an effective method to track and close EP issues. It was effectively utilized by the Duane Arnold Energy Center staff. Procedures were clear and easy to use.
Dockets Discussed: 05000331 Duane Arnold						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
08/06/1999	1999010	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	The EP training program was considered very good, as evidenced by frequent and properly critiqued training. The EP training program was considered very good, as evidenced by frequent and properly critiqued training, drills, and exercises. The interviewed Emergency Response Organization personnel successfully demonstrated knowledge of their emergency roles and procedures.
Dockets Discussed: 05000331 Duane Arnold						
08/06/1999	1999010	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	Appropriate management support to the program. Discussions with the EP Manager, staff, and site personnel indicated appropriate management support to the program. Upgrades and enhancements, plus the EP staff's responsive approach, have continued improving trends in both the program and training.
Dockets Discussed: 05000331 Duane Arnold						
08/06/1999	1999010	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	The licensee's Quality Assurance audits of the EP program were effective. The licensee's Quality Assurance audits of the EP program were effective in satisfying the requirements of 10 Code of Federal Regulations 50.54(t). The EP staff's ongoing responses to audit findings were appropriate and timely.
Dockets Discussed: 05000331 Duane Arnold						
07/22/1999	1999009	Pri: PLTSUP Sec:	NRC	NEG	Pri: 1C Sec: 3A Ter:	Radiation protection personnel were inconsistent in verifying that fuel assemblies and shipping boxes were 1 Radiation protection personnel provided sufficient support during new fuel receipt and inspection activities. However, the procedures that radiation protection technicians implemented were non-specific. This, in combination with management expectations that were not communicated to radiation protection personnel, resulted in inconsistent verification that fuel assemblies and shipping boxes were free of removable contamination.
Dockets Discussed: 05000331 Duane Arnold						
07/07/1999	1999007	Pri: PLTSUP Sec:	NRC	POS	Pri: 3A Sec: Ter:	The inspectors determined that radiation protection personnel appropriately restricted access to areas within The inspectors determined that radiation protection personnel appropriately restricted access to areas within the reactor building in response to a radiological contamination spill. The licensee was effective in its decontamination efforts.
Dockets Discussed: 05000331 Duane Arnold						
06/11/1999	1999006	Pri: PLTSUP Sec:	NRC	STR	Pri: 1C Sec: Ter:	Security organization implemented their duties and responsibilities in an effective manner. Efforts in self-ass Security organization implemented their duties and responsibilities in an effective manner. The security staff's efforts in self-assessment were varied and effective in identifying and resolving problems.
Dockets Discussed: 05000331 Duane Arnold						

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Region III

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title Item Description
05/25/1999	1999004	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	The licensee was effective in determining several contributing factors that led to an individual reaching his a The licensee was effective in determining several contributing factors that led to an individual reaching his accumulated dose alarm setpoint, which was not intended for this job activity.
Dockets Discussed: 05000331 Duane Arnold						
03/07/1999	1999003	Pri: PLTSUP Sec:	NRC	POS	Pri: Sec: Ter:	The inspectors determined that the radiation work permit supporting the removal and repair of the reactor wa The inspectors determined that the radiation work permit supporting the removal and repair of the reactor water cleanup pump provided sufficient radiation protection instructions.
Dockets Discussed: 05000331 Duane Arnold						
03/07/1999	1999003	Pri: PLTSUP Sec: MAINT	NRC	NEG	Pri: 3A Sec: Ter:	The inspectors observed a worker removing the pump in a contaminated area without wearing a face shield The inspectors observed a worker removing the pump in a contaminated area without wearing a face shield as recommended by the radiation work permit. The inspectors noted that a radiation protection technician did not take appropriate actions when the worker's face shield fell off and allowed the work to continue. The worker was surveyed after completing the job and no contamination was identified.
Dockets Discussed: 05000331 Duane Arnold						

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By Primary Functional Area

Legend

Type Codes:

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

Template Codes:

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

ID Codes:

NRC	NRC
Self	Self-Revealed
Licensee	Licensee

Functional Areas:

OPS	Operations
MAINT	Maintenance
ENG	Engineering
PLTSUP	Plant Support
OTHER	Other

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.