

D.C. Cook 1

Initiating Events

Significance: N/A Jun 30, 2001

Identified By: NRC

Item Type: FIN Finding

Supplemental Inspection - White PI for Unplanned Power Changes Greater Than 20 Percent

The PI crossed the Green-White threshold of more than six unplanned power changes greater than 20 percent per 7,000 hours of critical operation following an unplanned power change in March 2001. While the rate per 7,000 hours of critical operation was exceeded, the number of unplanned power changes was three due to the PI becoming valid at 2,400 hours of critical operation. The first Unit 1 unplanned power change greater than 20 percent was due to a failed power supply in the Solid State Protection System (SSPS). The second Unit 1 unplanned power change greater than 20 percent was due to a steam leak on a non-vital secondary side steam line level switch. The third Unit 1 unplanned power change greater than 20 percent was due to fouled main feedwater pump condensers. The inspector determined that licensee personnel adequately identified the problems that resulted in the three unplanned power changes. The licensee's follow-up investigation demonstrated that the root and contributing causes were properly identified. Licensee personnel assessed the three individual problems collectively and determined that there were no generic issues.

Inspection Report# : [2001012\(pdf\)](#)

Mitigating Systems

Significance: TBD Dec 29, 2001

Identified By: NRC

Item Type: URI Unresolved item

Failure to Include Appropriate Acceptance Criteria in TDAFW Pump Trip and Throttle Valve Maintenance Procedure

TBD. The inspectors identified an apparent violation of 10 CFR 50, Appendix B, Criterion V, "Instructions, Procedures, and Drawings," for the licensee's failure to include appropriate quantitative acceptance criteria in maintenance procedure 12-MHP 5021.056.007, "Auxiliary Feed Pump Trip and Throttle Valve Linkage Adjustment," Revision 2. Specifically, the procedure specified a trip throttle valve contact alignment criteria that was less conservative than the contact alignment specified in the vendor's turbine driven auxiliary feedwater pump (TDAFWP) trip throttle valve test instructions. Alignment of the trip throttle valve using a less conservative contact acceptance criteria could result in less latch engagement than required by a surface contact area acceptance criteria and a greater potential for inadvertent disengagement of the trip throttle latching mechanism. On June 14, 2000, the Unit 2 TDAFWP trip throttle valve was adjusted in accordance with 12-MHP 5021.056.007. Subsequently, on August 10, 2001, the Unit 2 TDAFWP trip throttle valve failed to adequately engage during three successive start attempts. The licensee determined that the apparent cause of the August 2001 failure was insufficient engagement of the trip throttle valve latching mechanism. The staff's significance determination of this finding was not complete at the time of issuance of this report; therefore, this issue is considered an unresolved item. The safety significance of this issue has been characterized as "To Be Determined (TBD)" pending the completion of additional risk analysis. (Section 40A1)

Inspection Report# : [2001019\(pdf\)](#)



Significance: G Dec 29, 2001

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Address a Design Deficiency on the Unit 1 and Unit 2 Safety-Related 4.16 kV Circuit Breakers in a Timely Manner

Green. The inspectors determined that the licensee failed to address a design deficiency on the Unit 1 and the Unit 2 safety-related 4.16 kV circuit breakers in a timely manner. This design deficiency could result in exceeding the 4.16 kV circuit breaker's momentary interrupting rating capability during a 3-phase bolted fault condition. This concern was initially noted by the licensee in 1988, was identified again by the NRC during a Safety System Functional Inspection in 1990, and during an Electrical Distribution Safety Functional Inspection in 1992. The failure to properly evaluate and correct this degraded condition is a Non-Cited Violation of 10 CFR Part 50, Appendix B, Criterion XVI. The inspectors evaluated the risk significance of this issue using the Significance Determination Process. Because no actual loss of safety function occurred, the low probability of failure, and system redundancy, this issue screened as Green (very low risk significance) after a Phase 1 Significance Determination Process review. (Section 4A02)

Inspection Report# : [2001019\(pdf\)](#)

Significance: N/A Dec 29, 2001

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Ensure That Coordination and Selective Tripping was Provided In Accordance With Safe Shutdown Capability Assessment

No Color. The inspectors identified a Non-Cited Violation (NCV) for failure to ensure that coordination and selective tripping was provided in accordance with the Safe Shutdown Capability Assessment. The Current Transformers (CT) for protective relaying at the 4.16 kV level were undersized and could reach saturation conditions if a bolted fault were to occur on the associated cabling. This condition could result in inadvertent tripping of 4.16 kV circuit breakers supplying safe shutdown equipment. The failure to ensure coordination and selective tripping is a violation of the D. C. Cook Operating license Section 2.C.(4) for Unit 1 and Section 2.C.(3)(0) for Unit 2. The finding was determined to be No Color because the finding was not suitable for SDP evaluation because it did not involve the impairment or degradation of a fire protection feature. Because the finding was of very low safety significance and the finding was captured in the licensee's corrective action system, this finding is being treated as a NCV

consistent with Section VI.A1 of the NRC Enforcement Policy (Section 1R05).

Inspection Report# : [2001019\(pdf\)](#)



Significance: Sep 30, 2001

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Follow Surveillance Procedure During ESW Flow Balancing in October 2000

A non-cited violation was identified for the failure to follow a surveillance procedure during Essential Service Water (ESW) system flow balancing in October 2000. Specifically, the licensee failed to properly position the ESW supply valve to the Unit 1 West Component Cooling Water (CCW) heat exchanger, 1-WMO-733, during flow balancing of the ESW system. The improperly positioned valve would have resulted in the heat exchanger receiving less than the required amount of ESW flow during an Engineered Safeguards Features Actuation. The inspectors concluded that the licensee's failure to position 1-WMO-733 as required by the ESW flow balance procedure constituted a non-cited violation of Technical Specification 6.8.1. The inspectors evaluated the risk significance of this issue using the Significance Determination Process. Because reasonable operator action could have been taken to maintain the CCW heat exchanger safety function, no actual loss of safety function occurred.

Consequently, this issue was screened as Green (very low risk significance) after a Phase 1 Significance Determination Process review
Inspection Report# : [2001016\(pdf\)](#)



Significance: Aug 18, 2001

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Implement Corrective Actions to Prevent Recurrence of Water Intrusion into AFW Pump Bearing Oil

A non-cited violation was identified for the failure to implement corrective actions to prevent repetitive occurrences of water intrusion into the Unit 1 West motor driven auxiliary feedwater pump (MDAFWP) bearing housing. Specifically, in 1998, the licensee identified the potential for water intrusion into the auxiliary feedwater pump bearing housings; however, the licensee failed to implement effective corrective actions to prevent recurrence of bearing water intrusion. Subsequently, water contamination of the bearing oil was identified on February 1, 2001 and July 2, 2001. The inspectors determined that water intrusion into the MDAFWP bearing housing constituted a significant condition adverse to quality. Therefore, the inspectors concluded that this failure constituted a Non-Cited Violation of 10 CFR 50, Appendix B, Criterion XVI. The inspectors evaluated the risk significance of this issue, using the Significance Determination Process, and concluded that water intrusion into the AFW pump bearing could affect the reliability of the auxiliary feedwater system. Because the inspectors promptly identified this issue, the licensee mitigated bearing water intrusion prior to an actual loss of auxiliary feedwater pump operability. Consequently, this issue was screened as GREEN (very low risk significance) after a Phase 1 Significance Determination Process review.

Inspection Report# : [2001014\(pdf\)](#)



Significance: May 12, 2001

Identified By: NRC

Item Type: NCV NonCited Violation

Non-Conservative Acceptance Criteria Used In Seal Injection Line Resistance Surveillance Procedure

A non-cited violation was identified for the failure to ensure that the acceptance criteria contained in test procedures associated with the measurement of the reactor coolant seal injection line resistance adequately incorporated limitations associated with steam generator replacement and instrument uncertainty. Specifically, the licensee failed to identify that the requirements of Technical Specification 4.4.6.2.1.c were non-conservatively impacted by installation of replacement steam generators. Additionally, the test acceptance criteria did not adequately consider instrument uncertainty over the range of expected test conditions. The inspectors evaluated the risk significance of this issue using the Significance Determination Process. Based on a review of recent test data, the inspectors determined that the impact of this failure was bounded by existing margin. Therefore, this issue did not result in inoperability of the controlled leakage charging flow path. Consequently, this issue was screened as GREEN (very low risk significance) after a Phase 1 Significance Determination Process review.

Inspection Report# : [2001009\(pdf\)](#)

Significance: N/A Apr 24, 2001

Identified By: NRC

Item Type: FIN Finding

Failure To Evaluate Whether Adjustments Were Necessary Such That There Would Be An Appropriate Balance Between Systems' Availability And Reliability In Accordance With 10 CFR 50.65 (a)(3)

NO COLOR. The inspectors identified a failure to evaluate whether adjustments were necessary such that there would be an appropriate balance between systems' availability and reliability in accordance with 10 CFR 50.65 (a)(3) of the maintenance rule. The safety significance of the specific finding was very low because it did not affect the operability of the systems, and the licensee entered the finding in the corrective action program. However, there was a regulatory concern with the maintenance rule program due to the extend the problems identified in this and previous NRC inspection reports.

Inspection Report# : [2001010\(pdf\)](#)



Significance: Mar 31, 2001

Identified By: NRC

Item Type: NCV NonCited Violation

Failure To Place Unit 1 W MDAFW and TDAFW Trains In Maintenance Rule Category (a)(1)

GREEN. A non-cited violation was identified for the failure to demonstrate that the performance of the auxiliary feedwater (AFW) system had been effectively controlled by the preventive maintenance program. The inspectors concluded that this was a violation of 10 CFR 50.65 (a)(2). The

licensee failed to identify and properly account for maintenance preventable functional failures (MPFFs) associated with the Unit 1 West motor drive auxiliary feedwater train and one repetitive MPFF associated with the turbine driven AFW pump train. The inspectors concluded that the performance and condition of Unit 1 AFW was not being effectively controlled through the performance of appropriate preventive maintenance. The inspectors evaluated the risk significance of this issue using the Significance Determination Process. The AFW system was relied upon to support secondary heat removal following a loss of normal feedwater and therefore was within the mitigating systems cornerstone. The inspectors determined that the failure to recognize, monitor and correct ineffective maintenance practices could adversely impact the performance of a risk significant SSC. However, the inspectors concluded that this failure did not result in a total loss of the secondary heat removal safety function due to availability of redundant AFW trains. Additionally, reliability failures that could be attributable to ineffective maintenance activities occurred during conditions not requiring secondary heat removal or were repaired within the TS allowed outage time. Therefore, this issue was screened as GREEN (very low risk significance) after a Phase 1 Significance Determination Process review. Although the risk significance of this issue was very low, the inspectors concluded that this was more than a minor concern because the failure to recognize and correct ineffective maintenance practices could result in decreased reliability and increased unavailability of the AFW system.

Inspection Report# : [2001007\(pdf\)](#)



Significance: Feb 16, 2001

Identified By: NRC

Item Type: NCV NonCited Violation

2 Green Findings - Failure to identify nonconforming conditions associated with operation in excess of the maximum design differential pressure for the Unit 2 east CCW HX and the Unit 1 east CTS HX

One Non-Cited Violation of 10 CFR Part 50 Appendix B, Criterion XVI "Corrective Action" was identified, for failure to identify nonconforming conditions associated with operation in excess of the maximum design differential pressure for the Unit 2 east component cooling water heat exchanger and the Unit 1 east containment spray heat exchanger. (Green) Exceeding the maximum design differential pressure limit for the component cooling water heat exchanger was considered more than minor, because it could cause divider plate failure potentially rendering the heat exchanger inoperable. (Green) Exceeding the maximum design differential pressure limit for the containment spray heat exchanger was considered more than minor because it was indicative of heat exchanger fouling, which could degrade the heat removal capability and potentially result in internal tube support structural failures. If the internal support structures fail, they could block flow and render the heat exchanger inoperable. The safety significance of these findings was very low because only the mitigating systems cornerstone is affected and systems remained operable (1R07.b.2).

Inspection Report# : [2001004\(pdf\)](#)



Significance: Feb 16, 2001

Identified By: NRC

Item Type: NCV NonCited Violation

2 Green Findings - Failure to implement actions to prevent recurrence of failed CTS HX tubes caused by microbiologically induced corrosion and the CCW HX divider plate weld cracking

One Non-Cited Violation of 10 CFR Part 50 Appendix B, Criterion XVI "Corrective Action" was identified, for failure to implement actions to prevent recurrence of; failed containment spray heat exchanger tubes caused by microbiologically induced corrosion, and cracking of the component cooling water heat exchanger divider plate welds. (Green) Lack of action to preclude continued microbiologically induced corrosion of the containment spray heat exchanger tubes was considered more than minor because it could result in tube failures, which would result in an uncontrolled release of radioactivity and loss of heat exchanger function. (Green) Lack of action to preclude recurrence of divider plate weld cracking was considered more than minor because it could lead to divider plate failure, which would render the component cooling water heat exchangers inoperable. The safety significance of these findings was very low because only the mitigating systems cornerstone is affected and systems remained operable (1R07.b.3).

Inspection Report# : [2001004\(pdf\)](#)



Significance: Feb 16, 2001

Identified By: NRC

Item Type: NCV NonCited Violation

Green - Failure to perform a review to verify the impact of tube plugging on the HX design differential pressure limit in a calculation for all safety related HXs

One Non-Cited Violation of 10 CFR Part 50 Appendix B, Criterion III "Design Control" was identified, for failure to perform a review to verify the impact of tube plugging on the heat exchanger design differential pressure limit in a calculation for all safety related heat exchangers. (Green) Failure to assess the impact of tube plugging on the maximum design differential pressure limit is considered more than minor, because heat exchangers could be returned to service with excessive differential pressure. Excessive differential pressure could cause internal structural component failure and loss of heat exchanger function. The safety significance of this finding was very low because only the mitigating systems cornerstone is affected and systems remained operable (1R07.b.4).

Inspection Report# : [2001004\(pdf\)](#)



Significance: Feb 16, 2001

Identified By: NRC

Item Type: NCV NonCited Violation

2 Green Findings - Failure to identify nonconforming conditions associated with operation of the Unit 1 east CTS HX with dented tubes and operation of the Unit 2 east CCW HX with blocked tubes.

One Non-Cited Violation of 10 CFR Part 50 Appendix B, Criterion XVI "Corrective Action" was identified, for failure to identify nonconforming conditions associated with dented tubes in the Unit 1 east containment spray heat exchanger and blocked tubes in the Unit 2 east component

cooling water heat exchanger. (Green) Failure to evaluate dented tubes in the containment spray heat exchanger was considered more than minor because flaw detection was challenged. If flaws were left in service, the flawed tubes could fail, causing an uncontrolled release of radioactivity and loss of heat exchanger function. (Green) Failure to evaluate the remaining component cooling heat exchanger capability due to blocked tubes, was considered more than minor, because blocked tubes degrade the heat exchanger's capability to remove post accident heat loads. The safety significance of these findings was very low because only the mitigating systems cornerstone is affected and systems remained operable (1R07.b.1).

Inspection Report# : [2001004\(pdf\)](#)

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Significance: Dec 04, 2000

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Properly Set Relief Valves Installed in Unit 1 Motor Operated Valves During a Design Change

During review of a design change, the team identified improperly set relief valves installed in two Unit 1 motor operated valves, which was considered a Non-Cited Violation of 10 CFR 50, Appendix B, Criterion III, "Design Control." The licensee had not yet operated Unit 1 with this design change and for the current plant mode, operability of these valves was not required. Therefore, this finding was determined to be of very low safety significance. This issue was considered more than minor, because if it was left uncorrected, it could have impacted the function of these valves, which affect safe operation of the plant at power

Inspection Report# : [2000021\(pdf\)](#)

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Significance: Nov 11, 2000

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Implement Corrective Actions Required By Maintenance Rule on the Radiation Monitoring System

A non-cited violation was identified for the failure to implement corrective actions for the Radiation Monitoring System (RMS). The RMS had been previously categorized under 10 CFR 50.65 as a Maintenance Rule (a)(1) system with established performance goals. The licensee failed to implement appropriate corrective actions as required by 10 CFR 50.65 (a)(1) after the RMS failed to meet the established performance goals. The failure to implement corrective actions for the RMS was significant in that the simultaneous loss of both control rooms' RMS control terminals resulted in the loss of all RMS indication and alarm functions. This issue was determined to be of very low risk significance because the simultaneous RMS control terminal failures did not result in an actual loss of a safety function equipment for greater than 24 hours.

Inspection Report# : [2000022\(pdf\)](#)

Significance: SL-IV Sep 30, 2000

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Monitor the Unavailability of 46 Systems Required During Shutdown Mode Operation

A non-cited violation was identified for the failure to demonstrate that the preventative maintenance program effectively controlled the performance of systems required to be functional during shutdown conditions. The licensee suspended monitoring of unavailability for structures, systems, and components (SSCs) within the scope of the Maintenance Rule during the September 1997 through June 2000 dual unit extended outage. The failure to monitor shutdown system unavailability impacted the Maintenance Rule monitoring of 46 systems required during shutdown. Since the licensee failed to monitor the performance of SSCs, the reliability of systems and effectiveness of the licensee's maintenance program could not be demonstrated.

Inspection Report# : [2000020\(pdf\)](#)

Significance: SL-IV Sep 30, 2000

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Establish Performance Goals for the Chemical and Volume Control System, a Maintenance Rule (a)(1)System

A non-cited violation was identified for the failure to establish performance goals for the Unit 1 Chemical and Volume Control System (CVCS) monitored per the Maintenance Rule under 10 CFR 50.65(a)(1). The failure to establish performance goals for the Unit 1 CVCS was significant in that without established goals the licensee could not demonstrate the effectiveness of maintenance to assure reliability of the system.

Inspection Report# : [2000020\(pdf\)](#)

G

Significance: Sep 30, 2000

Identified By: NRC

Item Type: NCV NonCited Violation

Failure To Place Unit 2 250 VDC In Maintenance Rule Category (a)(1) After Multiple Maintenance Preventible Functional Failures

A non-cited violation was identified for the failure to demonstrate that the performance of the 250 VDC system had been effectively controlled through the performance of appropriate preventive maintenance. Specifically, the licensee failed to identify and properly account for maintenance preventable functional failures of 250 VDC control power fuse blocks. The inspectors identified that the licensee had mis-classified a maintenance related failure of a 250 VDC fuse block on a diesel generator output breaker. The inspectors identified that three additional maintenance preventable functional failures associated with fuse blocks have occurred since May 1999. The performance criteria allowed no maintenance preventable functional failures over a 24-month period. The inspectors determined that these fuse block failures could have had a credible impact on safety and could become a more significant safety concern if left uncorrected.

Inspection Report# : [2000020\(pdf\)](#)

Barrier Integrity

Emergency Preparedness

G**Significance:** Aug 18, 2000

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to perform a semiannual Augmentation drill for 1999

Green. The licensee failed to conduct an off-hours, unannounced staff augmentation drill during the second half of calendar year 1999, which resulted in a Non-Cited Violation of NRC requirements. Although this failure resulted in a missed demonstration of the licensee's augmentation capabilities, it was not an indication that either the emergency preparedness planning standard in 10 CFR 50.47(b)(2) was not met or that the off-hours augmentation methodology could not be implemented. Specifically, off-hours, staff augmentation drills were successfully conducted during the first half of 1999 and the first half of year 2000. Based on the above factors, the failure to conduct an augmentation drill during the second half of 1999 was of very low safety significance.

Inspection Report# : [2000014\(pdf\)](#)

Occupational Radiation Safety

Significance: N/A Feb 16, 2001

Identified By: NRC

Item Type: FIN Finding

ALARA Program Problem Identification and Corrective Action Timeliness

Failure to identify and correct programmatic deficiencies with the ALARA program in a timely manner. Programmatic deficiencies with the routine operational ALARA program existed for an extended period of time, before they were adequately identified and corrective actions were initiated.

Inspection Report# : [2001006\(pdf\)](#)G**Significance:** Aug 18, 2000

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Perform/Record HRA Key Inventories

The inspector identified that on four occasions in July and August of 2000, the licensee had not performed or had not documented inventories of high radiation area (HRA) keys, which resulted in a Non-Cited Violation for the failure to follow procedures. The issue was of very low safety significance because no problems with inventories were noted prior to and after the identified omissions, which indicated that HRA keys were not lost or misused during the stated period of times. In addition, personnel entering the radiologically controlled area were required to have electronic dosimetry. The electronic dosimeters would have provided an indication of an increased exposure had an individual improperly entered such an area and would have reduced the potential for an overexposure. (Section 2OS1.4)

Inspection Report# : [2000018\(pdf\)](#)G**Significance:** Aug 18, 2000

Identified By: NRC

Item Type: NCV NonCited Violation

Inadequate Radiological Survey for Transfer of Highly Contaminated Filters

The licensee failed to evaluate the potential for airborne radiological hazards associated with the loading of highly contaminated filters into a high integrity container, which resulted in the unplanned intakes of radioactive materials. The inspector identified a Non-Cited Violation for the failure to perform an adequate radiological survey as required by 10 CFR 20.1501. The issue was of very low safety significance because the actual exposures to the workers were below the 10 CFR Part 20 limits and the radiological source term present and the work activities performed would not have constituted a significant potential for an overexposure. (Section 2OS1.3)

Inspection Report# : [2000018\(pdf\)](#)

Public Radiation Safety

G**Significance:** Dec 29, 2001

Identified By: NRC

Item Type: NCV NonCited Violation

Radiological Environmental Monitoring Program Sample Analysis Requirements Not Met.

Green. A Non-Cited Violation of Technical Specification 6.8 was identified for the failure to meet Offsite Dose Calculation Manual (ODCM) required radioanalytical detection capabilities for some environmental samples collected during the third and fourth quarters of 2000, and the first quarter of 2001. This finding included a cross-cutting element as a contributing factor related to the timeliness of the licensee's corrective actions, since the sample analytical problems were known but not effectively corrected for an extended period. Although the licensee's ability to evaluate the environmental impact from some exposure pathways was impaired, this finding was determined to be of very low safety significance because the majority of sample analyses satisfied detection requirements to enable the overall impact on the environment from actual plant effluents to be assessed. (Section 2PS3)

Inspection Report# : [2001019\(pdf\)](#)

G

Significance: Aug 18, 2000

Identified By: Licensee

Item Type: NCV NonCited Violation

Radioactive Material Inappropriately Removed from the Restricted Area

On three occasions during calendar year 2000, individuals removed potentially contaminated material from restricted areas before procedurally required radiological surveys were performed. The failure to adhere to the licensee's procedure for unconditional release of materials resulted in a Non-Cited Violation. Since the potential public doses from each of the three events was concluded to be much less than 1 millirem total effective dose equivalent (TEDE) and since less than five occurrences were identified, the issue was determined to be of very low safety significance.

(Section 3PS1.1)

Inspection Report# : [2000018\(pdf\)](#)

Physical Protection

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Significance: Jan 12, 2001

Identified By: NRC

Item Type: NCV NonCited Violation

The Effectiveness of Protected Area Intrusion Detection System

Performance testing of the perimeter intrusion alarm system identified some areas where the system did not effectively perform its intended function. This single issue could impact the overall effectiveness of response. The inspector identified a Non-Cited Violation for a failure to adequately perform the functions required by Section 5.3.1.1 of the NRC-approved D. C. Cook Security Plan. The inspectors also identified that the licensee's testing procedure was inadequate to identify these problems. The specific zones and problems are considered safeguards information. This is a finding because it represents a potential vulnerability of a safeguards system. This has the potential of affecting the ability of the response force to redeploy with sufficient numbers and in time to interdict an adversary before it could reach a vital target. The issue was of very low safety significance because there was no actual event and there have not been greater than two similar findings in four quarters.

Inspection Report# : [2000026\(pdf\)](#)

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Significance: Jan 12, 2001

Identified By: NRC

Item Type: NCV NonCited Violation

The Inspectors Observed Some Responder Communication Problems During Force-On-Force Drills Conducted on January 10-11, 2001

The inspectors observed some responder communication problems during force-on-force drills conducted on January 10-11, 2001. This issue represents a matter, that if left uncorrected, could result in evaluations of response performance not reflective of true capabilities.

Inspection Report# : [2000026\(pdf\)](#)

Significance: N/A Oct 20, 2000

Identified By: NRC

Item Type: FIN Finding

Licensee corrective action for a previously identified finding was not totally effective to prevent recurrence.

The licensee corrective actions for a previously identified finding regarding inadequate personnel authorization to vital areas was not totally effective to prevent recurrence. While the risk of unauthorized access was very low, the finding showed that the scope and focus of licensee corrective action was not totally effective to prevent reoccurrence.

Inspection Report# : [2000024\(pdf\)](#)

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Significance: Oct 20, 2000

Identified By: NRC

Item Type: NCV NonCited Violation

Inadequate Personnel Authorization to Vital Areas

The inspector identified a Non-Cited violation involving the failure of two licensee supervisors to properly follow licensee procedural guidance regarding personnel vital area access authorization that resulted in four badged contractor personnel being authorized access to three specific vital areas even though their duties (work-related need) did not require them to access those areas. This finding was of very low safety significance because none of the individuals had gained access to the three specific vital areas.

Inspection Report# : [2000024\(pdf\)](#)

Miscellaneous

**Significance:** Dec 29, 2001

Identified By: NRC

Item Type: FIN Finding

Human Performance Cross Cutting Issue

Green. The inspectors identified a Finding of very low safety significance associated with recent licensee human performance weaknesses. Specifically, two licensee identified violations of NRC requirements occurred during this period which indicated weaknesses in the human performance cross-cutting area. The violations involved inadequate control of the impact energy of loads carried over the spent fuel pool contrary to Technical Specification requirements and the failure to adequately align the Unit 1 "B" Train diesel generator (D/G) voltage regulator for standby service. The human performance aspects of these issues are related to failures to follow procedural guidance, inadequate self checking, and the failure to perform adequate independent verifications. The inspectors assessed the safety significance of this issue using the Significance Determination Process (SDP). The inspectors concluded that these human performance weaknesses had a credible impact on safety and could become a more significant safety concern if left uncorrected. Specifically, the failure to limit the impact energy of loads carried over spent fuel could result in fuel barrier damage greater than assumed in the safety analysis following a postulated crane failure. The inspectors determined that the failure to adequately control impact energy was associated with the fuel barrier; therefore, this issue was determined to be of very low safety significance following a Phase 1 SDP. Additionally, the failure to align the diesel generator voltage regulation system for standby service could result in the failure of the diesel generator to adequately provide power to supported equipment. The inspectors determined that, based on the as-found voltage regulator settings, the Unit 1 "B" Train D/G would have been able to perform its associated safety function. Because the failure to adequately align the Unit 1 "B" Train D/G did not result in an actual loss of safety function, this issue was also determined to be of very low safety significance. Therefore, the inspectors concluded that these human performance weaknesses constituted a finding of very low risk significance based on the safety significance of the resultant issues and their impact to the cornerstones of reactor safety. (Section 40A4)

Inspection Report# : [2001019\(pdf\)](#)**Significance:** N/A Aug 18, 2001

Identified By: NRC

Item Type: FIN Finding

Failed to Adequately Identify and Resolve Conditions Adverse to Quality on U1 W AFW And the U2 Safety-Related Ventilation System

NO COLOR. The inspectors identified that the licensee failed to adequately identify and resolve conditions adverse to quality on the Unit 1 West auxiliary feedwater system and the Unit 2 safety-related ventilation system which could have a credible impact on safety if left uncorrected. The inspectors determined that licensee performance weaknesses in the problem identification and resolution area do not impact a specific reactor safety cornerstone. However, the inspectors concluded that these additional failures to correct conditions adverse to quality provide substantive information relating to the problem identification and resolution cross-cutting area. Additionally, these issues relate to a previously identified finding regarding the licensee's failure to implement adequate corrective actions for Maintenance Rule violations (FIN 50-315/01-07-02). Because of the historical finding and the cross-cutting aspects of problem identification and resolution, the inspectors concluded that these additional corrective action program weaknesses constituted a NO-COLOR Finding. (Section 40A2)

Inspection Report# : [2001014\(pdf\)](#)**Significance:** N/A Mar 31, 2001

Identified By: NRC

Item Type: FIN Finding

Failure To Implement Adequate Corrective Actions For Previously Identified Maintenance Rule Violations

NO COLOR. The inspectors identified several examples of ineffective corrective actions for previous violations of the Maintenance Rule. Specifically, the licensee failed to properly evaluate and identify several maintenance preventable functional failures associated with the Unit 1 auxiliary feedwater system and set adequate goals for the ice condenser system. Previous violations involved the failure to properly evaluate and identify maintenance preventable functional failures of the Unit 2 250 Vdc system and failure to establish performance goals for the Unit 1 chemical and volume control system. Ineffective corrective actions for previous Maintenance Rule violations are more than a minor concern in that ineffective corrective actions could impact the ability of the licensee to adequately maintain the reliability, availability and performance of risk-significant SSCs within the scope of the Maintenance Rule. Although the inspectors determined that this issue does not impact a specific reactor safety cornerstone and did not represent a violation of NRC requirements, this corrective action weakness provided substantive information relating to the problem identification and resolution cross-cutting issue and relates to previously identified findings.

Inspection Report# : [2001007\(pdf\)](#)**Significance:** N/A Feb 02, 2001

Identified By: NRC

Item Type: FIN Finding

Annual PI&R Inspection Results

The licensee is effective at identifying problems and initiating condition reports at an adequate threshold. The licensee's audits and assessments were effectively managed, adequately covering the subject areas, and findings and recommendations were appropriately captured in condition reports. Generic communications were being appropriately identified for evaluation. In general, identified issues were appropriately characterized and classified, and appropriate evaluations were conducted for significant conditions adverse to quality. However, the large backlog of post-restart condition reports and inconsistent timeliness and effectiveness of root cause evaluations continue to challenge the organization. The inspectors noted several examples where effectiveness reviews for significant conditions adverse to quality had not been completed in a timely manner. In addition, although condition report evaluations ordinarily identified the correct causal factors which were effective in resolving issues, the inspectors noted several examples where corrective actions for conditions adverse to quality were not effective in preventing recurrence.

Inspection Report# : [2001003\(pdf\)](#)

Significance: N/A Nov 11, 2000

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Provide Adequate Clearance Isolation Results in Draindown of Between 1,800 and 3,000 Gallons From Reactor Cavity

A non-cited violation was identified for the failure to verify the mechanical isolation for a clearance and establish energy control measures to ensure worker safety and equipment protection. Between 1,800 and 3,000 gallons of water from the reactor cavity was inadvertently drained to lower containment. The spill resulted in an unplanned radiation dose to the plant workers assigned to the cleanup. This issue was determined to be of very low risk significance because the actual worker radiation doses received as a result of this event were minimal and did not affect the licensee's ability to assess dose. The failure to establish an adequate mechanical isolation for the work activity was considered an example of a human performance issue.

Inspection Report# : [2000022\(pdf\)](#)

Significance: SL-IV Aug 22, 2000

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Follow Procedural Controls With Cross-Tied 600VAC Busses

The inspectors identified a human performance issue in that the Unit 1 Control Room operators did not notice that the 600 volt busses were drawing excessive current while cross-tied. This failure to follow procedural requirements for electrical bus current loading was considered to be a non-cited violation

Inspection Report# : [2000019\(pdf\)](#)

Last modified : March 01, 2002