Grand Gulf 1 4Q/2007 Plant Inspection Findings

Initiating Events

Significance: Sep 30, 2007 Identified By: Self-Revealing Item Type: FIN Finding

Reactor SCRAM due to Turbine Trip caused by Loss of Condenser Vacuum

A self-revealing finding was identified involving the failure to properly calibrate the main condenser hydraulic vacuum switch that established a higher trip setpoint that would prematurely actuate an automatic turbine trip and reactor scram for a degraded main condenser vacuum condition. This issue was entered into the licensee's corrective action program as condition Report CR-GGN-2007-02756.

The finding was more than minor because it was associated with the initiating events cornerstone attribute of equipment performance and affected the associated cornerstone objective to limit the likelihood of those events that upset plant stability and challenge critical safety functions during shutdown and power operations. Using the MC 0609, "Significance Determination Process," Phase 1 Worksheet, the finding was determined to have very low safety significance, because the finding did not contribute to the likelihood that mitigating equipment or functions would not be available following a reactor trip. The cause of the finding was related to the human performance crosscutting component of resources in that the calibration procedure did not provide clear instructions detailing the methodology to adjust the speed simulation screw to the required position.[H.2(c)]

Inspection Report#: 2007004 (pdf)

Mitigating Systems

Significance: Sep 30, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Monitor Performance of the Control Rod Drive System.

The inspectors identified a Green noncited violation (NCV) of 10 CFR Part 50.65(a)(2) for the failure to adequately monitor the performance of the control rod drive system. Specifically, the licensee failed to adequately perform a functional failure determination for a degraded flow control valve. Following licensee review of this condition the system was placed in the maintenance rule (a)(1) monitoring status.

This finding was more than minor since the degraded control rod drive flow control valve caused the system to be placed in the (a)(1) monitoring status. This finding was characterized under the significance determination process as having a very low safety significance, because the maintenance rule aspect of the finding did not cause an actual loss of safety function of the system, nor did it cause a component to become inoperable. The cause of this finding has a crosscutting aspect in the area of human performance associated with decision making, because licensee personnel failed to use conservative assumptions and did not verify the validity of the underlying assumptions used in making safety-significant decisions. H.1(b)

Inspection Report#: 2007004 (pdf)

Significance: Sep 30, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Establish a Formal Procedure to Monitor Outdoor Air Temperatures.

The inspectors identified a noncited violation of 10 CFR Part 50, Appendix B, Criterion III, "Design Control," for the

failure to translate a design basis limit for outdoor air temperature into an instruction or procedure. The licensee established a new Updated Final Safety Analysis Report maximum outdoor air temperature of 102.5 degrees F. If outside air temperatures exceeded 102.5 degrees F, safety-related equipment, which are located in rooms that are cooled by outdoor air (i.e., standby service water pump room), would be operationally challenged. The inspectors identified that no instruction or procedure was established to monitor high outside temperature or subsequent actions established in the event the design basis temperature limit is exceeded.

The inspectors determined that the finding was more than minor because the finding affects the mitigating system cornerstone objective of ensuring the reliability of the standby service water system that responds to initiating events to prevent undesirable conditions. Using the Phase 1 worksheet in Inspection Manual Chapter 0609, "Significance Determination Process," this finding is determined to be of very low safety significance because there was no actual loss of a safety function, and the design basis limits had not been exceeded. The inspectors determined that the finding has a crosscutting aspect in the area of human performance decision making because the licensee failed to use conservative assumptions in determining not to establish a procedure or instruction to monitor high outside temperature for design limits on the standby service water pump room. H.1(b)

Inspection Report# : 2007004 (pdf)

Significance:

Jun 30, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Adequately Monitor the Performance of the Leakage Detection System

The inspectors identified a Green noncited violation involving the failure to adequately monitor the performance of the leakage detection system in accordance with 10CFR50.65(a)(2). Specifically, the licensee failed to account for the functional failure of a temperature switch which resulted in exceeding the performance criteria for the leakage detection system. The licensee entered this issue in their corrective action program as Condition Report CR-GGN-2007-2955.

This finding was greater than minor since violations of 10 CFR Part 50.65(a)(2) necessarily involve degraded system performance which, if left uncorrected, could become a more significant safety concern. This finding has very low safety significance because the maintenance rule aspect of the finding did not lead to an actual loss of safety function of the system nor did it cause a component to be inoperable. This finding has a crosscutting aspect in the area of human performance associated with work practices in that the licensee failed to use human error prevention techniques such as self checking and peer checking when utilizing the maintenance rule database (H.4(a)). Inspection Report#: 2007003 (pdf)

Significance: Jun 30, 2007 Identified By: Self-Revealing

Item Type: FIN Finding

Inadequate Foreign Material Controls During Reactor Feed Pump Maintenance

A self-revealing Green finding was identified for inadequate foreign material controls during maintenance. Specifically, a foreign material exclusion device was left inside the reactor feed Pump B lube oil system following maintenance activities, which prevented placing the pump in service during reactor startup. The licensee entered this issue in their corrective action program as Condition Report CR-GGN-2007-2158.

The finding was more than minor because it was associated with the human performance attribute of the mitigating systems cornerstone and impacted the cornerstone objective of ensuring the availability, reliability, and capability of systems that respond to initiating events. The inspectors determined this finding required a Phase 2 analysis because it resulted in the loss of function of a single train of the power conversion system (reactor feed) for greater than 24 hours. Based on the results of the Phase 2 analysis, the finding was determined to have very low safety significance because of the availability of the condensate booster pumps and emergency core cooling systems. The cause of this finding has a crosscutting aspect in the area of human performance associated with resources because licensee personnel were not adequately trained to consistently implement the foreign material exclusion program (H.2(b)). Inspection Report#: 2007003 (pdf)

Significance: G Jun 30, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Follow Procedure for Safety-Related Breaker Inspections

The inspectors identified a Green noncited violation of Technical Specification 5.4.1(a) involving the failure to identify loose and missing fasteners on the standby service water Train B bus feeder breaker. The licensee entered this issue in their corrective action program as Condition Report CR-GGN-2007-3081.

This finding was more than minor because the failure to ensure that loose parts are not present in safety related breakers, if left uncorrected, could become a more significant safety concern. Using the Significance Determination Process Phase 1 Screening Worksheet in Appendix A of Inspection Manual Chapter 0609, the inspectors determined the finding was of very low safety significance because it did not result in a loss of operability.

Inspection Report# : 2007003 (pdf)

Significance: Mar 31, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Follow Procedures Resulting in an Inadequate Operability Evaluation.

The inspectors identified a Green noncited violation of 10 CFR Part 50 Appendix B, Criterion V involving the failure to follow procedures resulted in an inadequate operability evaluation for a degraded switchgear ventilation system. Specifically, the evaluation utilized several non-conservative input assumptions and failed to adequately evaluate the potential adverse affects from changing weather conditions. The licensee entered this issue in their corrective action program as Condition Report CR-GGN-2007-0554.

This finding is more than minor because the failure to perform an adequate operability evaluation, if left uncorrected, could become a more significant safety concern. Using the Manual Chapter 0609, "Significance Determination Process," Phase 1 Worksheet, this finding is of very low safety significance since it did not result in a loss of operability. The cause of this finding has a crosscutting aspect in the area of human performance associated with decision making because licensee personnel failed to use conservative assumptions and did not verify the validity of the underlying assumptions used in making safety-significant decisions (Section 1R15).

Inspection Report# : 2007002 (pdf)

Significance:

Mar 31, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Ineffective Command and Control Results in Inappropriate Valve Manipulations.

The inspectors identified a Green noncited violation of Technical Specification 5.4.1(a) for failure to meet procedural requirements involving command and control in the control room. Specifically, the control room supervisor was not informed of a system alignment change directed by the shift technical advisor. The licensee entered this issue in their corrective action program as CR-GGN-2007-1060.

This finding is more than minor since the failure to maintain appropriate command and control in the control room, if left uncorrected, could lead to a more significant safety concern. The inspectors determined that this finding affected the mitigating systems cornerstone. Using Manual Chapter 0609, "Significance Determination Process," Phase 1 worksheets, the finding is of very low safety significance since it did not result in an actual loss of operability. This finding has a crosscutting aspect in the area of human performance associated with work practices because the failure to communicate the system realignment to the control room supervisor prevented the control room supervisor from maintaining proper supervisory oversight of work activities.

Inspection Report# : 2007002 (pdf)

Significance: 6 Mar 31, 2007

Identified By: Self-Revealing

Item Type: NCV NonCited Violation

Failure to Follow Procedure Resulting in Isolation of Switchgear Room Ventilation.

A self-revealing Green noncited violation of Technical Specification 5.4.1(a) was identified for the failure to follow a surveillance procedure resulting in the inadvertent isolation of ventilation to the Division 1 and Division 3 safetyrelated switchgear rooms. The licensee entered this issue in their corrective action program as CR-GGN-2006-4394. This finding is more than minor since it affected the human performance attribute of the mitigating systems cornerstone and impacted the cornerstone objective of ensuring the availability, reliability and capability of systems that respond to initiating events. Using the Manual Chapter 0609, "Significance Determination Process," Phase 1 Worksheet, the inspectors determined the finding was of very low safety significance because it did not result in a loss of operability. This finding has a crosscutting aspect in the area of human performance associated with work practices because licensee personnel did not effectively utilize human error prevention techniques, such as self and peer checking.

Inspection Report#: 2007002 (pdf)

Significance:

Mar 31, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Identify and Correct Standby Service Water System Leakage.

The inspectors identified a Green noncited violation of 10 CFR Part 50, Appendix B, Criterion XVI for the failure to promptly identify and correct a condition adverse to quality. Specifically, the licensee failed to take adequate corrective actions in response to service water leakage from drywell purge compressor oil cooler drain plugs. The licensee entered this issue in their corrective action program as CR-GGN-2006-4762.

This finding is more than minor because if left uncorrected, the zinc drain plugs could have deteriorated to a point at which service water leakage would have impacted the performance of the standby service water system. This finding also affects the equipment performance attribute of the mitigating systems cornerstone and impacts the cornerstone objective to ensure the availability, reliability, and capability of systems that respond to initiating events. Using the Significance Determination Process Phase 1 Screening Worksheet in Appendix A of Inspection Manual Chapter 0609, the inspectors determined the finding was of very low safety significance because it did not result in a loss of operability. This finding has a crosscutting aspect in the area of problem identification and resolution associated with the corrective action program because the licensee failed to thoroughly evaluate the cause and extent of condition for corrosion identified on the drain plugs of the Train B purge compressor oil cooler.

Inspection Report# : 2007002 (pdf)

Significance:

Mar 12, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Prevent Recurrence of High Standby Diesel Generator Temperatures (Section 3.0).

The team identified a noncited violation of 10 CFR Part 50, Appendix B, Criterion XVI, "Corrective Action," involving the failure to identify and correct the cause of elevated temperatures adversely affecting the safety function of the Division I standby diesel generator that had previously occurred in 1999 and 2004. Subsequently, on January 30, 2007, the Division I standby diesel generator again experienced elevated temperatures during a surveillance run and was subsequently declared inoperable. This issue was entered into the licensee's corrective action program as Condition Report GGN-2007-0378.

The finding is greater than minor because it is associated with the mitigating systems cornerstone attribute of equipment performance and affects the cornerstone objective to ensure the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences. The Phase 1 Worksheets in Manual Chapter 0609, "Significance Determination Process," were used to conclude that a Phase 2 analysis was required because the condition represented a loss of safety function of a single train of a Technical Specification system for greater than its allowed outage time. The inspectors performed a Phase 2 analysis using Appendix A, "Technical Basis For At Power Significance Determination Process," of Manual Chapter 0609, "Significance Determination Process," and the Phase 2 Worksheet for Grand Gulf. The Phase 2 evaluation concluded that the finding was of very low safety significance. A Phase 3 significance determination analysis also determined the finding was of very low safety significance. The cause of the finding is related to the problem identification and resolution crosscutting area in that the licensee failed to thoroughly evaluate the problem resulting in ineffective corrective actions being implemented that failed to prevent recurrence of a significant condition adverse to quality (Section 3.0).

Inspection Report# : 2007006 (pdf)

Significance: Mar 12, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Inadequate Alarm Response Instruction for SDG High Jacket Water Temperature (Section 4.0).

The team identified a noncited violation of Technical Specification 5.4.1 (a) involving the failure to maintain an adequate alarm response instruction for standby diesel generator high jacket water temperature. Specifically, Procedure 04-1-02-1H22-P400, "Alarm Response Instruction, Panel No.: 1H-22-P400, Safety Related," Revision 109, failed to provide adequate guidance to manually override the standby diesel generator jacket water cooling system temperature control valve during emergency conditions. This issue was entered into the licensee's corrective action program as Condition Report GG-2007-1837.

The finding is greater than minor because it is associated with the mitigating systems cornerstone attribute of procedure quality and affects the cornerstone objective to ensure the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences. Using Manual Chapter 0609, "Significance Determination Process," Phase 1 Worksheet, the finding is determined to have very low safety significance because it did not screen as potentially risk significant due to a seismic, flooding, or severe weather initiating events. The cause of the finding is related to the problem identification and resolution crosscutting area in that the licensee did not take appropriate corrective actions to adequately address a previously identified safety concern (Section 4.0).

Inspection Report# : 2007006 (pdf)

Significance:

Mar 12, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Promptly Identify a Degraded Condition (Section 5.0).

The team identified a noncited violation of 10 CFR Part 50, Appendix B, Criterion XVI, "Corrective Action," involving the failure to promptly identify a condition adverse to quality. Between February 2-15, 2007, the licensee failed to promptly identify that corrective actions taken in response to a January 30, 2007, failure of the Division 1 standby diesel generator jacket water cooling system temperature control valve had not addressed the cause of the valve failure. Specifically, following the valve's failure, the licensee inappropriately concluded the valve's internal thermal elements were faulty, replaced the elements, performed postmaintenance testing, and declared the valve and associated standby diesel generator operable on February 1, 2007. Subsequent testing of the suspect faulty thermal elements on February 2 and 13, 2007, found the components were functional. Following receipt of the testing results, the licensee failed to promptly identify that replacement of the thermal elements failed to address the cause of the problem resulting in the failure to evaluate a potential degraded condition affecting operability of the standby emergency diesel generator. This issue was entered into the licensee's corrective action program as Condition Report GGN-2007-2255.

The finding is greater than minor because it is associated with the mitigating systems cornerstone attribute of equipment performance and affects the associate cornerstone objective to ensure the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences. Using Manual Chapter 0609, "Significance Determination Process," Phase 1 Worksheet, the finding is determined to have very low safety significance because the condition did not screen as potentially risk significant due to a seismic, flooding, or severe weather initiating events. The cause of the finding is related to the problem identification and resolution crosscutting area in that the licensee did not identify an issue completely, accurately, and in a timely manner commensurate with its safety significance resulting in the failure to evaluate a potential degraded condition for operability (Section 5.0). Inspection Report# : 2007006 (pdf)

Significance: 6 Mar 12, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Follow Procedures Resulting in an Inadequate Operability Evaluation (Section 5.0).

The inspectors identified a Green noncited violation of 10 CFR Part 50 Appendix B, Criterion V, "Instructions, Procedures, and Drawings," for a failure to follow procedures which resulted in an inadequate operability evaluation. Specifically, the evaluation did not include an analysis of conditions that could be causing the valve to fail, and it provided no assessment of the effect these conditions would have related to the specified safety function and mission time of the standby diesel generator. The licensee entered this issue in their corrective action program as Condition Report GGN-2007-2256.

This finding is more than minor because the failure to perform an adequate operability evaluation, if left uncorrected, could become a more significant safety concern. Using Manual Chapter 0609, "Significance Determination Process," Phase 1 Worksheet, this finding was of very low safety significance since it did not result in a loss of operability. The cause of this finding has a crosscutting aspect in the area of human performance associated with decision making because licensee personnel failed to use conservative assumptions and did not verify the validity of the underlying assumptions used in making safety-significant decisions (Section 5.0).

Inspection Report# : 2007006 (pdf)

Barrier Integrity

Significance: Sep 30, 2007 Identified By: Self-Revealing Item Type: NCV NonCited Violation

Failure to Follow Procedures Caused Loss of Decay Heat Removal in the Spent Fuel Pool.

A self-revealing Green non-cited violation of Technical Specifications 5.4.1(a) was identified involving the failure to adequately follow procedure to align valves in the fuel pool cooling and cleanup system. The valves were aligned in the wrong sequence, contrary to the system operating instructions, causing both fuel pool cooling and cleanup pumps to trip and a subsequent loss of fuel pool cooling. The licensee entered this issue in their corrective action program as Condition Report CR-GGN-2007-04284.

The finding is more than minor, since it affects the human performance attribute of the barrier integrity cornerstone and affects the cornerstone objective to provide reasonable assurance that physical design barriers protect the public from radionuclide releases caused by accidents or events. Using the Manual Chapter 0609, "Significance Determination Process," Phase 1 Worksheet, inspectors determined that the finding has a very low safety significance since it only represents a degradation of the radiological barrier function provided by the spent fuel pool system. The cause of this finding has a crosscutting aspect in the area of human performance associated with work practices because licensee personnel failed to follow the correct sequence of valve manipulations required by procedure. [H.4 (b)]

Inspection Report# : 2007004 (pdf)

Significance: G Jun 30, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Repair Crack in Containment Building Structure

The inspectors identified a Green noncited violation of 10 CFR Part 50, Appendix B, Criterion XVI, involving the failure to correct a crack in the ceiling of the reactor water cleanup heat exchanger room internal to the containment building structure. Specifically, the licensee identified the crack in 1987 but failed to complete planned corrective actions to evaluate or repair the crack during Refueling Outage 2. The licensee entered this issue into their corrective action program as Condition Report CR-GGN-2007-1970.

This finding was more than minor because the reactor water cleanup (RWCU) ceiling crack represented a degrading condition that if left uncorrected could become a more significant safety concern. The inspectors determined this finding affected the Barrier Integrity cornerstone. Using the Manual Chapter 0609, "Significance Determination Process," Phase 1 Worksheet, this finding was of very low safety significance since it did not represent an actual open pathway in the physical integrity of the reactor containment or an actual reduction in defense-in-depth for the atmospheric pressure control or hydrogen control functions of the reactor containment.

Inspection Report# : 2007003 (pdf)

Emergency Preparedness

Occupational Radiation Safety

Significance: Jun 30, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Evaluate the Radiological Hazard Caused by Foreign Material Retrieval from the Reactor Vessel The inspectors reviewed a self-revealing, noncited violation of 10 CFR Part 20.1501(a) because the licensee failed to

evaluate the radiological hazard of foreign material retrieval from the reactor vessel. A contract radiation protection technician misinterpreted his survey instrument readings, picked up a bolt with a radiation dose rate of 19.9 rem per hour, and received a shallow dose equivalent of 41 millirems. The radiation protection technician was alerted to the problem by an electronic dosimeter alarm. As corrective action, the licensee revised the appropriate radiation work permit template to incorporate a dose rate limit for items removed from pools and included a discussion of the violation in radiation protection training.

This finding is greater than minor because it is associated with the occupational radiation safety program and process attribute and affected the cornerstone objective, in that the lack of knowledge of radiological conditions could increase personnel dose. Using the Occupational Radiation Safety Significance Determination Process, the inspectors determined that this finding was of very low safety significance because it did not involve: (1) an as low as is reasonably achievable (ALARA) planning or work control issue; (2) an overexposure; (3) a substantial potential for overexposure; or (4) an impaired ability to assess dose. Additionally, this finding has a crosscutting aspect in the area of human performance associated with work practices because the workers failed to use error prevention techniques such as peer checking and self checking (H.4(a)).

Inspection Report# : 2007003 (pdf)

Significance: Jun 30, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Post and Control a High Radiation Area

The inspectors reviewed a self-revealing, noncited violation of Technical Specification 5.7.1 resulting from a failure to post and control a high radiation area. Room 0R123 on the 93-foot elevation of the radwaste building had dose rates as high as 265 millirems per hour at 30 centimeters from the G17D069 filter housing and was not posted and controlled as a high radiation area. The licensee was alerted to the situation when the electronic dosimeters of two radwaste operators alarmed when they entered the higher dose rates. Poor communications between operations and radiation protection personnel contributed to the failure to identify the high radiation area. Radiation protection supervisors stated they were unaware at the time of the operators' dose rate alarms that reactor water cleanup reject flow was approximately twice the normal flow rate and both of the reactor water cleanup demineralizers had been out of service from approximately 3:00 p.m. on May 19 until 9:00 a.m. on May 20, 2007. As immediate corrective action, the area was barricaded and conspicuously posted as a high radiation area. Additional planned corrective actions were still being evaluated.

This finding is greater than minor because it is associated with the occupational radiation safety program and process attribute and affected the cornerstone objective, in that the failure to post and control a high radiation area had the potential to increase personnel dose. Using the Occupational Radiation Safety Significance Determination Process, the inspectors determined that this finding was of very low safety significance because it did not involve: (1) an as low as is reasonably achievable (ALARA) planning or work control issue; (2) an overexposure; (3) a substantial potential for overexposure; or (4) an impaired ability to assess dose. Additionally, this finding has a crosscutting aspect in the area of human performance associated with work control because the licensee failed to ensure proper communication, coordination, and cooperation during activities in which interdepartmental coordination was necessary to assure plant and human performance (H.3(b)).

Inspection Report# : 2007003 (pdf)

Significance: Mar 31, 2007 Identified By: Self-Revealing

Item Type: NCV NonCited Violation

Failure to Follow Procedural Guidance and Radiation Work Instructions While Supporting Radiograpy Operations

A self-revealing, Green noncited violation of Technical Specification 5.4.1 was identified for the failure to follow procedural guidance and radiation work instructions while supporting radiography operations. All entrances to the area in which radiography was conducted were not barricaded and posted at the two millirem per hour point, as required. However, the high radiation area was barricaded, posted, and guarded. As immediate corrective action, the licensee postponed additional radiography and initiated a review of the occurrence. Further corrective action is being evaluated.

This finding is greater than minor because it is associated with the occupational radiation safety program attribute of exposure control and affected the cornerstone objective, in that the failure to control access to areas in which radiography is conducted could result in unplanned personnel dose. Using the Occupational Radiation Safety

Significance Determination Process, the inspector determined the finding had very low safety signficance because (1) it was not an ALARA finding, (2) there was no overexposeure, (3) there was no substantial potential for an overexposure because no one entered the area in which high doses were possible, and (4) the ability to assess dose was not compromised. Additionally, this finding has a crosscutting aspect in the area of human performance associated with work control because the licensee did not coordinate work activities by incorporating actions to address the need to keep personnel apprised of work status.

Inspection Report# : 2007002 (pdf)

Significance:

Mar 31, 2007

Identified By: Self-Revealing

Item Type: NCV NonCited Violation

Failure to Follow Radiation Work Permit Instructions Prohibiting High Radiation Area Entry.

A self-revealing Green noncited violation of Technical Specification 5.4.1 was identified for the failure to follow radiation work permit instructions prohibiting high radiation area entry. Two outage workers entered a high radiation area on the 139-foot elevation of the auxiliary steam tunnel, in violation of their radiation work permit instructions. The licensee was alerted to the entry into the high radiation area by one of the worker's alarming dosimeter. As immediate corrective action, the licensee revoked the worker's access to the radiologically controlled area. Further corrective action is being evaluated.

This finding is greater than minor because it is associated with the occupational radiation safety program attribute of exposure control and affected the cornerstone objective, in that the failure to follow radiation work permit instructions could result in unplanned personnel dose. Using the Occupational Radiation Safety Significance Determination Process, the inspector determined the finding had very low safety significance because (1) it was not an ALARA finding, (2) there was no overexposure, (3) there was no substantial potential for overexposure because, at the highest dose rate, it would have taken 40 hours to receive a whole-body overexposure, and (4) the ability to assess dose was not compromised. Additionally, this finding has a crosscutting aspect in the area of human performance associated with work practices because the workers failed to use error prevention techniques such as self and peer checking.

Inspection Report# : 2007002 (pdf)

Significance: Mar 31, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Evaluate the Radiological Hazard Caused by Water Leaking in the Drywell.

The inspector identified a Green noncited violation of 10 CFR 20.1501(a) because the licensee failed to adequately evaluate the radiological hazard caused by water leaking from a valve in the drywell. The licensee failed to maintain knowledge of changing radiological conditions. As immediate corrective action, the licensee surveyed the area to obtain current information. Further corrective action is being evaluated.

This finding is greater than minor because it is associated with the occupational radiation safety program and process attribute and affected the cornerstone objective, in that the lack of knowledge of radiological conditions could increase personnel dose. Using the Occupational Radiation Safety Significance Determination Process, the inspector determined the finding had very low safety significance because (1) it was not an ALARA finding, (2) there was no overexposure, (3) there was no substantial potential for an overexposure, and (4) the ability to assess dose was not compromised. Additionally, this finding has a crosscutting aspect in the area of human performance associated with decision making because the licensee did not use conservative assumptions in deciding the correct contamination survey frequency in the drywell.

Inspection Report# : 2007002 (pdf)

Public Radiation Safety

Sep 14, 2007 Significance:

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Provide Function-Specific Training to Hazardous Material Workers.

The team identified a noncited violation (NCV) of 10 CFR 71.5 because the licensee failed to provide required training to hazardous material workers involved in the shipment of radioactive material. Specifically, the licensee did not provide function-specific training, pursuant to 49 CFR 172.704(a) of Department of Transportation shipping regulations, to maintenance personnel involved in the reassembly the shipping casks. Corrective actions are still being evaluated; however, the licensee plans to provide hazardous material training to these employees. The licensee documented this issue in the corrective action program as Condition Report-GGN-2007-04572.

The finding is greater than minor because it is associated with the Public Radiation Safety Cornerstone attribute of

The finding is greater than minor because it is associated with the Public Radiation Safety Cornerstone attribute of program and process and affects the cornerstone objective. Inadequate training of hazardous material workers regarding the reassembly and loading of shipping casks has a potential impact on public dose and on the licensee's ability to safely package and transport radioactive material on public roadways. The violation involved an occurrence in the licensee's radioactive material transportation program that is contrary to NRC or Department of Transportation regulations. When processed through the Public Radiation Safety Significance Determination Process, the finding was determined to be of very low safety significance because it: (1) was associated with radioactive material control, (2) involved the licensee's program for radioactive material packaging and transportation, (3) did not cause radiation limits to be exceeded, (4) did not result in a breach of package during transit, (5) did not involve a certificate of compliance issue, (6) did not involve a non-compliance with low level burial ground, and (7) did not involve a failure to make notifications or to provide emergency information. In addition, this finding had cross-cutting aspects in the area of human performance in the component of resources because the licensee did not ensure the availability and adequacy of training for hazardous material workers involved in the shipment of radioactive material shipments for transport. (H.2.b) (Section 2PS2)

Inspection Report# : $\underline{2007007}$ (pdf)

Physical Protection

Although the NRC is actively overseeing the Security cornerstone, the Commission has decided that certain findings pertaining to security cornerstone will not be publicly available to ensure that potentially useful information is not provided to a possible adversary. Therefore, the <u>cover letters</u> to security inspection reports may be viewed.

Miscellaneous

Last modified: February 04, 2008