

Comanche Peak 2

1Q/2005 Plant Inspection Findings

Initiating Events

Significance:  Nov 03, 2004

Identified By: Self Disclosing

Item Type: FIN Finding

Loss of Unit 2 Turbine Load Due to Missed Step in Transferring Control to Manual Hydraulic Control

A self-revealing finding was identified for failing to follow the procedure to transfer turbine control from the electro hydraulic control to the manual hydraulic control which resulted in a Unit 2 turbine runback to 65 percent turbine load. No violation of NRC requirements occurred because the turbine control system is nonsafety-related.

The finding is more than minor because it resulted in a plant transient, similar to example 4. b. of Appendix E to Manual Chapter 0612. The finding is associated with the human performance attribute and affects the Initiating Events cornerstone objective to limit the likelihood of those events that upset plant stability and challenge critical safety functions during shutdown as well as at power operations. The finding was processed through the significance determination process and determined to be of very low safety significance (Green) because it was a transient initiator but did not increase the likelihood that mitigation equipment would not be available.

Inspection Report# : [2004005\(pdf\)](#)

Significance:  Oct 08, 2004

Identified By: Self Disclosing

Item Type: FIN Finding

Unit 2 Downpower Due to Loss of Heater Drain Forward Flow During Calibration of 2-HV-2589B

A self-revealing finding was identified for inadequate control of maintenance activities which resulted in the loss of heater drain forward flow to the Unit 2 main feedwater pumps and subsequent reactor downpower to approximately 60 percent power to avoid a plant trip on loss of feedwater flow. Troubleshooting a heater drain pump recirculation valve unexpectedly caused the opposite recirculation valve to open. No violation of NRC requirements occurred because the heater drain system is nonsafety related.

The finding is more than minor because it resulted in a plant transient, similar to example 4. b. of Appendix E to Manual Chapter 0612. The finding is associated with the human performance attribute and affects the Initiating Events cornerstone objective to limit the likelihood of those events that upset plant stability and challenge critical safety functions during shutdown as well as at power operations. The finding was processed through the significance determination process and determined to be of very low safety significance (Green) because it was a transient initiator but did not increase the likelihood that mitigation equipment would not be available.

Inspection Report# : [2004005\(pdf\)](#)

Mitigating Systems

Significance:  Dec 03, 2004

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to maintain design control over a safety class boundary isolation

A non-cited violation of 10CFR50 Appendix B Section III, Design Control, was identified for failure to maintain the design requirements for a safety class piping isolation boundary in the makeup line to the Condensate Storage Tank. The licensee performed plant modifications and operating procedure changes which involved a fundamental change in status of safety class piping boundary isolation valves from normally closed to normally open without determining that the new configuration did not meet the system design requirements. The issue was entered into the corrective action program as Smart Form SMF-2003-001773-00.

The licensee had performed an operability assessment of the Auxiliary Feedwater System and concluded that the system remains operable, even though it is degraded because of the lack of appropriate double valve isolation between the Class III and Class V piping in the Condensate Storage Tank makeup line. The licensee assessment showed operations personnel had over 30 minutes to manually isolate a leak from the non-safety class piping. The licensee is planning to modify the Condensate Storage Tank makeup lines to incorporate double check valve isolation meeting the appropriate design requirements for normally using the line for tank recirculation.

The team characterized this finding as greater than minor because the Mitigating Systems Cornerstone objective to ensure the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences (i.e., core damage) was affected. The finding is associated with the design control attribute of the mitigating systems cornerstone. Using the Phase 1 worksheet in 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.

Inspection Report# : [2004008\(pdf\)](#)

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Significance: Dec 03, 2004

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to fully implement Commission granted relief and alternative requirements

The team identified a non-cited violation of 10 CFR 50.55a(f)(6)(i), for failure to fully implement NRC granted relief and alternative inservice testing requirements. Specifically, the licensee failed to perform the alternative requirement for periodic assessments, which precluded the reassessment of components to reflect changes in plant configuration, component performance test results, industry experience, and other inputs to the risk-informed process. The finding has very low safety significance and has been entered into the corrective action program as Smart Form SMF-2004--003883-00.

The team characterized this finding as greater than minor because the Mitigating Systems Cornerstone objective to ensure the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences (i.e., core damage) was affected. The finding is associated with the equipment performance attribute of the mitigating systems cornerstone. Using the Phase 1 worksheet in 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.

Inspection Report# : [2004008\(pdf\)](#)

Barrier Integrity

Emergency Preparedness

Occupational Radiation Safety

Significance: SL-IV May 28, 2004

Identified By: Self Disclosing

Item Type: VIO Violation

Entry into a high radiation area without a briefing on radiation dose rates

On November 4, 2003, an individual entered a high radiation area without contacting radiation protection personnel for a briefing on the dose rates in the area, despite verbal and posted instructions to the contrary. Dose rates within the room were as high as 250 millirems per hour at 30 centimeters from the source of radiation. The licensee was alerted to the situation when the individual's electronic dosimeter alarmed because the dose rate setpoint was exceeded. The occurrence was a violation of Technical Specification 5.7.1.e. The violation involved the act of a low-level individual; however, the licensee failed to promptly provide information concerning the violation to appropriate NRC personnel, in accordance with Section VI.A.1.d(1) of the NRC Enforcement Policy. Therefore, the finding could not be treated as a noncited violation.

The failure to contact radiation protection personnel for a briefing on radiation dose rates prior to entering a high radiation area is a performance deficiency because it resulted in the licensee's failure to meet a requirement in its technical specifications. Because there are willful aspects of the violation, it is subject to traditional enforcement. The willful aspects notwithstanding, the inspector used the Occupational Radiation Safety Significance Determination Process described in Manual Chapter 0609, Appendix C, to analyze the significance of the finding. The inspector determined that the finding was of very low safety significance because it did not involve (1) ALARA planning and controls, (2) an overexposure, (3) a substantial potential for overexposure, or (4) an impaired ability to assess dose. The finding was entered into the licensee's corrective action program as SMF-2003-3594, and the individual was appropriately disciplined. This finding also had crosscutting aspects associated with human performance.

Inspection Report# : [2004003\(pdf\)](#)

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Significance: Apr 09, 2004

Identified By: Self Disclosing
Item Type: NCV NonCited Violation

Two examples of a Technical Specification 5.7.1e violation for failure of personnel to receive a briefing on radiation dose rates prior to entry into a high radiation area

The NRC reviewed two examples of a self-revealing noncited violation of Technical Specification 5.7.1e for the failure of personnel to receive a briefing on radiation dose rates prior to entering a high radiation area. On February 10, 2004, an individual entered the Waste Monitor Tank Room X-185, a posted high radiation area, without being briefed on dose rates in the area and received an electronic dosimeter dose rate alarm. On February 18, 2004, an individual entered the piping penetration Train A, Room 077B, a posted high radiation area, without being briefed on the dose rates in the area before being stopped by another worker.

The failure to be briefed about radiation dose rates prior to entering a high radiation area is a performance deficiency. The finding was greater than minor because it was associated with the Occupational Radiation Safety cornerstone attribute of Program and Process and affected the cornerstone objective to ensure adequate protection of a worker's health and safety from exposure to radiation. When processed through the Occupational Radiation Safety Significance Determination Process, the finding was determined to be of very low safety significance because the finding was not associated with as low as is reasonably achievable issues, there was no overexposure or substantial potential for overexposure, and the ability to assess dose was not compromised. The two examples of the finding were entered into the licensee's corrective action program as SMF-2004-062 and SMF-2004-0471.

Inspection Report# : [2004003\(pdf\)](#)

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Significance: Apr 09, 2004

Identified By: NRC

Item Type: NCV NonCited Violation

Two examples of a 10 CFR 20.1501 violation for failure to perform a radiological survey

The NRC identified two examples of a noncited violation of 10 CFR 20.1501a because the licensee failed to perform surveys to identify dose rates and contamination levels of potential radiological hazards. On January 8, 2004, workers performing decontamination of a pole that was used for filter compaction alarmed the contamination monitors while exiting the radiologically controlled area. The licensee identified that the pole had contact dose rates of 150 millirem per hour; however, the inspector determined that the pole was not surveyed for contamination. In addition, on April 5, 2004, the inspector identified dose rates as high as 250 millirem per hour on contact and 80 millirem per hour at 30 centimeters on a containment spray line in Piping Area X-213. The posted survey map outside the room indicated general area dose rates near the pipe of between 1 and 5 millirem per hour.

The failure to perform surveys to evaluate the magnitude and extent of radiation levels and the concentrations or quantities of radioactive materials are performance deficiencies. The finding is greater than minor because they are associated with the Occupational Radiation Safety cornerstone attribute of Program and Process and affected the cornerstone objective to ensure adequate protection of a worker's health and safety from exposure to radiation. When processed through the Occupational Radiation Safety Significance Determination Process, the finding was determined to be of very low safety significance because it was not associated with as low as is reasonably achievable issues, there was no overexposure or substantial potential for overexposure, and the ability to assess dose was not compromised. The two examples of the finding were entered into the licensee's corrective action program as SMF-2004-0069 and SMF-2004-1264.

Inspection Report# : [2004003\(pdf\)](#)

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Significance: Apr 09, 2004

Identified By: Self Disclosing

Item Type: NCV NonCited Violation

Technical Specification 5.4.1 violation for failure to follow radiation work permit requirement

The inspector reviewed a self-revealing noncited violation of Technical Specification 5.4.1 for failure to follow a radiation work permit requirement. On April 4, 2004, scaffold builders constructed scaffolding up into an area of containment that had not been surveyed by radiation protection personnel and received an electronic dosimeter dose rate alarm.

The failure to follow radiation work permit requirements is a performance deficiency. The finding was greater than minor because it was associated with the Occupational Radiation Safety cornerstone attribute of Program and Process and affected the cornerstone objective to ensure adequate protection of a worker's health and safety from exposure to radiation. When processed through the Occupational Radiation Safety Significance Determination Process, the finding was determined to be of very low safety significance because the finding was not associated with as low as is reasonably achievable issues, there was no overexposure or substantial potential for overexposure, and the ability to assess dose was not compromised. The finding was entered into the licensee's corrective action program as SMF-2004-1202.

Inspection Report# : [2004003\(pdf\)](#)

Public Radiation Safety

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Significance: Oct 22, 2004

Identified By: Self Disclosing

Item Type: NCV NonCited Violation

Failure to maintain and analyze composite samples on two occasions

The team reviewed a self-revealing non-cited violation of Technical Specification 5.5.1, which occurred when the licensee failed on two occasions to sample in accordance with Offsite Dose Calculation Manual requirements. Specifically, during the third quarter of 2002 and the fourth quarter of 2003, the licensee failed to maintain portions of composite samples from the plant effluent tanks. The samples are required to be collected monthly and analyzed quarterly. The finding was placed into the licensee's corrective action program.

The finding is greater than minor because it is associated with one of the cornerstone attributes (effluent measurement) and affects the cornerstone objective because the failure to implement offsite dose calculation requirements decreases the licensee's assurance that the public will not receive unnecessary dose. The team determined that the finding had very low safety significance because: (1) the finding was not a radioactive material control finding, (2) it was an effluent release program finding, (3) the finding impaired the licensee's ability to assess dose, (4) the licensee did not fail to assess dose because it was able to assess dose to the public using the remaining composite samples, and (5) it did not result in doses that exceeded 10 CFR Part 50, Appendix I or 10 CFR 20.1301(d). This finding had crosscutting aspects associated with human performance. When licensee personnel failed to store the samples properly, they directly contributed to the finding.

Inspection Report# : [2004009\(pdf\)](#)

Physical Protection

[Physical Protection](#) information not publicly available.

Miscellaneous

Last modified : June 17, 2005