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## **Catawba 1 – Quarterly Plant Inspection Findings**

### **2Q/2017 – Plant Inspection Findings**

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#### **Initiating Events**

#### **Mitigating Systems**

**Significance:** G Dec 31, 2016

Identified By: NRC

Item Type: NCV Non-Cited Violation

#### **Failure to follow lockout relay testing procedure.**

Green: A self-revealing Green non cited violation (NCV) of Technical Specification (TS) 5.4.1, "Procedures," was identified for the licensee's failure to follow procedure IP/2/A/4971/086, "2ETA 4160V Switchgear Lockout Relays," during relay testing, resulting in inadvertently tripping the "A" control room area chilled water system (CRACWS) compressor. Specifically, not following the procedure resulted in tripping the "A" CRACWS compressor and entering TS 3.7.11, "Control Room Area Chilled Water System (CRACWS)." As corrective actions, the licensee started the "B" CRACWS chiller, completed the testing on the "A" CRACWS chiller and returned it to operable. The licensee entered this issue as condition report (CR) 2062216.

The inspectors determined the failure to follow procedure IP/2/A/4971/086 was a performance deficiency. The performance deficiency was more than minor because it was associated with the procedure adherence attribute of the mitigating systems cornerstone, and it adversely impacted the cornerstone objective of ensuring the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences (i.e., core damage). Specifically, not following the procedure resulted in the unplanned inoperability of the "A" train of CRACWS. Using IMC 0609, "Significance Determination Process," Phase 1 screening worksheet of the SDP, this finding was determined to be of very low safety significance because it was not a design or qualification deficiency confirmed to result in a loss of operability or functionality, did not represent a loss of system safety function, did not result in a loss of safety system function for a single train for greater than TS allowed outage time, did not result in a loss of safety function of one or more non-TS trains of equipment designated as risk significant for greater than 24 hours, and did not screen as potentially risk significant due to a seismic, flooding, or severe weather initiating event. The finding has a cross-cutting aspect of procedure adherence in the area of human performance because the licensee

failed to follow procedure IP/2/A/4971/086 during lockout relay testing. (H.8) (Section 1R20)

Inspection Report# : 2016004 (*pdf*)

## **Barrier Integrity**

**Significance:** G Feb 03, 2017

Identified By: NRC

Item Type: NCV Non-Cited Violation

### **Failure to Translate Design Requirements into Operating Procedures for NW System**

Green: The NRC identified a non-cited violation of Title 10 Code of Federal Regulations Part 50, Appendix B, Criterion III, "Design Control," for the licensee's failure to translate the limiting high pressure design requirement of the containment valve injection water (NW) system surge chamber into station procedures. Specifically, the licensee failed to translate the NW surge chamber high pressure design limit of 85 psig from calculation CNC-1223.19-00-0004, "NW system setpoint calculation," Rev. 7, into procedure OP/1/A/6200/019, "Containment Valve Injection Water System," Rev. 36, to ensure the NW system could perform its intended safety function during a design basis accident. The licensee entered this issue into their corrective action program as action request 02096392, reviewed the issue for current and past operability, and issued an operations guide to limit the NW surge chamber pressures to 80 psig.

The performance deficiency was determined to be more than minor because it adversely affected the design control attribute of the barrier integrity cornerstone and adversely affected the cornerstone objective of providing reasonable assurance that physical design barriers protect the public from radionuclide releases caused by accidents or events. Specifically, the failure to translate the 85 psig NW surge chamber pressure limit into procedures resulted in exceeding the NW surge chamber high pressure limit, which could result in an inability of the safety related nuclear service water system to provide makeup water to the NW surge chamber and result in entrainment of nitrogen gas in the surge chamber outlet. The team determined the finding to be of very low safety significance (Green) because the finding did not represent an actual open pathway in the physical integrity of reactor containment, containment isolation system, and heat removal components, and the finding did not involve an actual reduction in function of hydrogen igniters in the reactor containment. This finding was assigned a cross-cutting aspect of Evaluation in the Problem Identification and Resolution Area because the finding was indicative of present licensee performance, and the licensee did not thoroughly evaluate the issue identified in ARs 01912139 and 01912453 after the revision to the calculation was completed to ensure that the correct high pressure NW surge chamber design requirement would have been translated into procedures [P.2].

(Section 1R17)

Inspection Report# : 2017007 (*pdf*)

## **Emergency Preparedness**

## **Occupational Radiation Safety**

## **Public Radiation Safety**

## **Security**

The security cornerstone is an important component of the ROP, which includes various security inspection activities the NRC uses to verify licensee compliance with Commission regulations and thus ensure public health and safety. The

Commission determined in the staff requirements memorandum (SRM) for SECY-04-0191, "Withholding Sensitive Unclassified Information Concerning Nuclear Power Reactors from Public Disclosure," dated November 9, 2004, that specific information related to findings and performance indicators associated with the security cornerstone will not be publicly available to ensure that security-related information is not provided to a possible adversary. Security inspection report cover letters will be available on the NRC Web site; however, security-related information on the details of inspection finding(s) will not be displayed.

## **Miscellaneous**

Current data as of : August 03, 2017

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