April R. Rice
Manager
New Nuclear Licensing

April 1, 2016
NND-16-0101
10 CFR 52.99(c)(1)

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

Subject: Virgil C. Summer Nuclear Station (VCSNS) Unit 2
Combined License No. NPF-93
Docket Number 52-027
ITAAC Closure Notification on Completion of ITAAC 2.1.02.08a.i [Index No. 28]

Attachments: References

The purpose of this letter is to notify the Nuclear Regulatory Commission (NRC) in accordance with 10 CFR 52.99(c)(1) of the completion of Virgil C. Summer Nuclear Station (VCSNS) Unit 2 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Item 2.1.02.08a.i for verifying that the sum of the rated capacities recorded on the valve ASME Code plates of the safety valves exceeds 1,500,000 lb/hr. The closure process for this ITAAC is based on the guidance described in NEI 08-01 (Reference 1), which was endorsed by the NRC in Regulatory Guide 1.215.

ITAAC Statement

Design Commitment:

8.a) The pressurizer safety valves provide overpressure protection in accordance with Section III of the ASME Boiler and Pressure Vessel Code.

Inspections, Tests, Analyses:

i) Inspections will be conducted to confirm that the value of the vendor code plate rating is greater than or equal to system relief requirements.

Acceptance Criteria:

i) The sum of the rated capacities recorded on the valve ASME Code plates of the safety valves exceeds 1,500,000 lb/hr.

ITAAC Determination Basis

Multiple ITAAC are performed to demonstrate that the pressurizer safety valves provide overpressure protection in accordance with the ASME Boiler and Pressure Vessel Code, Section III, 1998 Edition with 2000 Addenda, Articles NB-7700 and NB-18 (Reference 2). This ITAAC requires that the sum of the pressurizer safety valve ASME Code plate rated capacities are greater than or equal to system relief requirements and thus provides overpressure protection.

An inspection of the pressurizer safety valves (RCS-PL-V005A and RCS-PL-V005B) was performed. The sum of the rated capacities recorded on the valve ASME Code plates exceeds 1,500,000 lb/hr. The Pressurizer Safety Valve flow capacity recorded on the valve ASME Code plate was certified by ASME through the National Board of Boiler and Pressure Vessel Inspectors (NBBPVI). Article NB-7700 of the ASME Boiler and Pressure Vessel Code, Section III describes the methods required to certify the relief device capacity and determine a coefficient used in determining capacity in subsequently manufactured valves. The safety valve flow capacity for the Pressurizer Safety Valves was calculated by a set of equations using the coefficient found in NB-7700 and also in NB-18, Pressure Relief Device Certification from the NBBPVI. This capacity value was recorded on the ASME Code plate.

The ASME Code data plate for each Pressurizer Safety Valve indicates each valve has a rated capacity of 794,555 lb/hr. Therefore, the sum of the rated Pressurizer Safety Valve capacities is 1,589,110 lb/hr.

The report “Quality Release and Certificate of Conformance for PV62 Valves” (Reference 3) exists and concludes that the sum of the rated capacities recorded on the valve ASME Code plates of the safety valves exceeds 1,500,000 lb/hr and confirms the acceptance criteria was met.

ITAAC Finding Review

In accordance with plant procedures for ITAAC completion, SCE&G performed a review of all findings pertaining to the subject ITAAC and associated corrective actions. This review found that there are no relevant ITAAC findings associated with this ITAAC. The ITAAC completion review is documented in the ITAAC Completion Package for ITAAC 2.1.02.08a.i (Reference 4) and available for NRC inspection.

ITAAC Completion Statement

Based on the above information, SCE&G hereby notifies the NRC that ITAAC 2.1.02.08a.i was performed for VCSNS Unit 2 and that the prescribed acceptance criteria are met.

Systems, structures, and components verified as part of this ITAAC are being maintained in their as-designed, ITAAC compliant condition in accordance with approved plant programs and procedures.

We request NRC staff confirmation of this determination and publication of the required notice in the Federal Register per 10 CFR 52.99(e)(1).

If there are any questions, please contact Nick Kellenberger at (803) 941-9834.

Sincerely,

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NK/AR/al

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References (available for NRC inspection):

1. NEI 08-01, Industry Guideline for the ITAAC Closure Process Under 10 CFR Part 52

2. ASME Boiler and Pressure Vessel Code, Section III, 1998 Edition with 2000 Addenda, Articles NB-7700 and NB-18

3. VS2-PV62-VQQ-001, Quality Release and Certificate of Conformance for PV62 Valves

4. ITAAC 2.1.02.08a.i Completion Package