



April R. Rice
Manager
New Nuclear Licensing

May 8, 2017
NND-17-0273
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 2.1.02.08d.vii
[Index Number 38]

Attachments: (1) 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 VCSNS Unit 2 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Item 2.1.02.08d.vii for verifying that the Reactor Coolant System (RCS) Automatic Depressurization Sparger flow area through the sparger holes is ≥ 274 in². 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.d) The RCS provides automatic depressurization during design basis events.

Inspections, Tests, Analyses:

vii) Inspection of each ADS sparger will be conducted to determine the flow area through the sparger holes.

Acceptance Criteria:

vii) The flow area through the holes in each ADS sparger is ≥ 274 in².

ITAAC Determination Basis

Multiple ITAAC are performed to demonstrate that the RCS provides automatic depressurization during design basis events. This ITAAC requires an inspection to verify the flow area through the holes in each Automatic Depressurization System (ADS) sparger is ≥ 274 in².

Following fabrication of the ADS spargers, the vendor performed a dimensional inspection by measuring the inner diameter of each of the 1400 holes in each sparger in accordance with plant procedures. The total flow area was calculated by summing the flow areas that are based on the minimum measured diameters of each hole using the area equation for a circle.

As documented in the V.C. Summer Unit 2 ADS sparger as-built report (Reference 2), the calculated flow area of each ADS sparger (VS2-PXS-MW-01A and VS2-PXS-MW-01B) is 285 in² and meets the ITAAC acceptance criteria.

ITAAC Finding Review

In accordance with plant procedures for ITAAC completion, South Carolina Electric & Gas (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 2.1.02.08d.vii (Reference 3) and available for NRC inspection.

ITAAC Completion Statement

Based on the above information, SCE&G hereby notifies the NRC that ITAAC 2.1.02.08d.vii 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 Ryder Thompson at (803) 941-9812.

Sincerely,



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Attachment 1

References (available for NRC inspection):

1. NEI 08-01, Industry Guideline for the ITAAC Closure Process Under 10 CFR Part 52.
2. VS2-MW01-Z0R-002, AP1000 ADS Sparger – VC Summer Unit 2 (VS2) Flow Area As-Built Analysis
3. V.C. Summer Unit 2 ITAAC 2.1.02.08d.vii Completion Package