

Michael J. Yox  
Regulatory Affairs Director  
Vogtle 3 & 4  
Nuclear Development

Southern Nuclear  
Operating Company, Inc.  
7825 River Road  
Waynesboro, GA 30830  
Tel: 706.848.6459



**MAR 30 2016**

Docket No.: 52-026

ND-16-0367  
10 CFR 52.99(c)(1)

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

Southern Nuclear Operating Company  
Vogtle Electric Generating Plant Unit 4  
ITAAC Closure Notification on Completion of ITAAC 2.1.02.08a.i [Index Number 28]

Ladies and Gentlemen:

In accordance with 10 CFR 52.99(c)(1), the purpose of this letter is to notify the Nuclear Regulatory Commission (NRC) of the completion of Vogtle Electric Generating Plant (VEGP) Unit 4 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Item 2.1.02.08a.i [Index Number 28] "RCS Pressurizer Safety Valves Combined Capacity," for verifying that the sum of the vendor code plate ratings for the pressurizer safety valves is sufficient to provide overpressure protection. The closure process for this ITAAC is based on the guidance described in NEI 08-01, "Industry Guideline for the ITAAC Closure Process under 10 CFR Part 52," which was endorsed by the NRC in Regulatory Guide 1.215.

This letter contains no new NRC regulatory commitments. Southern Nuclear Operating Company (SNC) requests NRC staff confirmation of this determination and publication of the required notice in the Federal Register per 10 CFR 52.99.

If there are any questions, please contact Calvin Morrow at 706-848-6566.

Respectfully submitted,

Michael J. Yox  
Regulatory Affairs Director Vogtle 3&4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4  
Completion of ITAAC 2.1.02.08a.i [Index Number 28]

**To:**

**Southern Nuclear Operating Company/Georgia Power Company**

Mr. S. E. Kuczynski (w/o enclosures)

Mr. D. A. Bost (w/o enclosures)

Mr. M. D. Meier

Mr. M. D. Rauckhorst (w/o enclosures)

Mr. J. T. Gasser (w/o enclosures)

Mr. D. H. Jones (w/o enclosures)

Ms. K. D. Fili

Mr. D. L. McKinney

Mr. B. H. Whitley

Mr. D. L. Fulton

Mr. M. J. Yox

Mr. C. E. Morrow

Ms. K. Stacy

Mr. J.J. Olson

Mr. W. A. Sparkman

Mr. J. P. Redd

Mr. D. R. Culver

Document Services RTYPE: VND.LI.L06

File AR.01.02.06

cc:

**Nuclear Regulatory Commission**

Ms. C. Haney (w/o enclosures)

Mr. M. Delligatti (w/o enclosures)

Mr. L. Burkhardt (w/o enclosures)

Mr. C. Patel

Mr. B. M. Bovol

Ms. R. Reyes

Ms. M. A. Sutton

Mr. M. E. Ernstes

Mr. G. Khouri

Mr. M. G. Kowal

Mr. J. D. Fuller

Ms. K. Steddenbenz

Mr. T. Chandler

Ms. S. Temple

Ms. P. Braxton

Mr. M. Junge

**Oglethorpe Power Corporation**

Mr. M. W. Price

Ms. K. T. Haynes

**Municipal Electric Authority of Georgia**

Mr. J. E. Fuller

Mr. S. M. Jackson

U.S. Nuclear Regulatory Commission

ND-16-0367

Page 3 of 3

**Dalton Utilities**

Mr. D. Cope

**WECTEC**

Ms. K. Stoner (w/o enclosures)

Mr. C. A. Castell

**Westinghouse Electric Company, LLC**

Mr. R. Easterling (w/o enclosures)

Mr. J. W. Crenshaw (w/o enclosures)

Mr. L. Woodcock (w/o enclosures)

Mr. M. P. Rubin

Mr. P. A. Russ

Mr. G. F. Couture

Mr. M. Y. Shaqqo

Ms. S. DiTommaso

**Other**

Mr. R. W. Prunty, *Bechtel Power Corporation*

Ms. K. K. Patterson, *Tetra Tech NUS, Inc.*

Dr. W. R. Jacobs, Jr., *Ph.D., GDS Associates, Inc.*

Mr. S. Roetger, *Georgia Public Service Commission*

Ms. S. W. Kernizan, *Georgia Public Service Commission*

Mr. K. C. Greene, *Troutman Sanders*

Mr. S. Blanton, *Balch Bingham*

**Southern Nuclear Operating Company  
ND-16-0367  
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4  
Completion of ITAAC 2.1.02.08a.i [Index Number 28]**

### **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, Analysis:**

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 Section III of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code (Reference 1). 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, (SV4-RCS-PL-V005A and SV4-RCS-PL-V005B) was performed. The sum of the rated capacities recorded on the valve ASME Code plates of the safety valves 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 (Reference 1) 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 "Quality Release and Certificate of Conformance for PV62 Pressurizer Safety Valves" document (Reference 2) 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 is met.

### **ITAAC Finding Review**

In accordance with plant procedures for ITAAC completion, Southern Nuclear Operating Company (SNC) performed a review of all ITAAC 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 document number is referenced in the Vogtle Unit 4 ITAAC Completion Package for ITAAC 2.1.02.08a.i (Reference 3) and is available for NRC inspection.

### **ITAAC Completion Statement**

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.1.02.08a.i was performed for VEGP Unit 4 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.

### **References (available for NRC inspection)**

1. ASME Boiler & Pressure Vessel Code Section III, 1998 Edition with 2000 Addenda.
2. SV4-PV62-VQQ-001, Rev. 0, "Quality Release and Certificate of Conformance for PV62 Pressurizer Safety Valves"
3. SVP\_SV0\_03744, Attachment 1, Submittal of Inspections, Test, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 4 ITAAC 2.1.02.08a.i (28) (Verification of Pressurizer Safety Valve Relief Capacity)