

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

Southern Nuclear
Operating Company, Inc.
7825 River Road
Waynesboro, Ga. 30830
Tel: 706.437.6459



June 1, 2015

Docket No.: 52-025

ND-15-0952
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 3
Completion of ITAAC 2.3.06.09b.i [Index Number 374]

Ladies and Gentlemen:

In accordance with 10 CFR 52.99(c)(1), this letter is to notify the Nuclear Regulatory Commission (NRC) of the completion of Vogtle Electric Generating Plant (VEGP) Unit 3 Inspections, Tests, Analyses and Acceptance Criteria (ITAAC) Item 2.3.06.09b.i [Index Number 374], for verifying that a report exists and concludes that the product of the overall heat transfer coefficient and the effective heat transfer area, UA, of each Normal Residual Heat Removal System (RNS) heat exchanger is greater than or equal to 2.2 million Btu/hr-°F. 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 Paulo Albuquerque at 706-826-5531.

Respectfully submitted,


Michael J. Yox
Regulatory Affairs Director Vogtle 3&4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 3
Completion of ITAAC 2.3.06.09b.i [Index Number 374]

To:

Southern Nuclear Operating Company/ Georgia Power Company

Mr. S. E. Kuczynski (w/o enclosures)
Mr. J. A. Miller
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. D. M. Lloyd
Mr. B. H. Whitley
Mr. D. L. Fulton
Mr. M. J. Yox
Mr. P. C. Albuquerque
Mr. F. D. Hundley
Mr. W. A. Sparkman
Mr. J. P. Redd
Document Services RTYPE: VND.LI.L00
File AR.01.02.06

cc:

Nuclear Regulatory Commission

Mr. V. M. McCree (w/o enclosures)
Mr. M. Delligatti (w/o enclosures)
Mr. L. Burkhardt (w/o enclosures)
Mr. D. H. Jaffe
Mr. C. Patel
Ms. D. L. McGovern
Mr. B. C. Anderson
Mr. B. M. Baval
Ms. R. Reyes
Ms. M. A. Sutton
Mr. M. E. Ernstes
Mr. G. Khouri
Mr. M. G. Kowal
Mr. L. M. Cain
Mr. J. D. Fuller
Mr. C. B. Abbott
Ms. S. Temple

Oglethorpe Power Corporation

Mr. M. W. Price
Ms. K. T. Haynes
Ms. A. Whaley

Municipal Electric Authority of Georgia

Mr. J. E. Fuller
Mr. S. M. Jackson

Dalton Utilities

Mr. D. Cope

CB&I

Mr. J. Simmons (w/o enclosures)
Ms. K. Stoner (w/o enclosures)
Mr. C. A. Castell

Westinghouse Electric Company, LLC

Mr. R. Easterling (w/o enclosures)
Mr. S. W. Gray (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*

U.S. Nuclear Regulatory Commission
ND-15-0952 Enclosure
Page 1 of 3

Southern Nuclear Operating Company
ND-15-0952
Enclosure

Vogtle Electric Generating Plant (VEGP) Unit 3
Completion of ITAAC 2.3.06.09b.i [Index Number 374]

ITAAC Statement

Design Commitment:

9.b) The RNS provides heat removal from the reactor coolant during shutdown operations.

Inspections, Tests, Analyses:

i) Inspection will be performed for the existence of a report that determines the heat removal capability of the RNS heat exchangers.

Acceptance Criteria:

i) A report exists and concludes that the product of the overall heat transfer coefficient and the effective heat transfer area, UA, of each RNS heat exchanger is greater than or equal to 2.2 million Btu/hr-°F.

ITAAC Determination Basis

Multiple ITAAC are performed to demonstrate that the Normal Residual Heat Removal System (RNS) provides the heat removal from the reactor coolant during shutdown operations. This ITAAC verifies the heat removal capability of the RNS heat exchangers, RNS-ME-01A and RNS-ME-01B.

A report exists and concludes that the acceptance criteria are met and that the product of the overall heat transfer coefficient and the effective heat transfer area, UA, for each RNS heat exchanger is greater than or equal to the value specified in the acceptance criteria as 2.2 million Btu/hr-°F.

The vendor validated that the RNS heat exchangers are capable of meeting the specified heat transfer performance requirements. AP1000 ME1C RNS Normal Residual Heat Removal Heat Exchanger Design Report (Reference 1), was generated identifying the heat exchangers' design and performance characteristics, including the overall heat transfer coefficient, U, and the effective heat transfer area, A, for each heat exchanger.

An inspection was performed of the AP1000 ME1C RNS Normal Residual Heat Removal Heat Exchanger Design Report (Reference 1). The purpose of the inspection was to confirm that the product of the overall heat transfer coefficient and the effective heat transfer area, UA, of each RNS heat exchanger was greater than or equal to 2.2 million Btu/hr-°F. The product of the overall heat transfer coefficient and the effective heat transfer area, UA, of each RNS heat exchanger was 3.044 million Btu/hr-°F.

The AP1000 ME1C RNS Normal Residual Heat Removal Heat Exchanger Design Report (Reference 1) exists and concludes that the product of the overall heat transfer coefficient and the effective heat transfer area, UA, of each RNS heat exchanger is greater than or equal to 2.2 million Btu/hr-°F.

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 is documented in the Vogtle Unit 3 ITAAC Completion Package for ITAAC 2.3.06.09b.i (Reference 2) and available for NRC inspection.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.3.06.09b.i was performed for VEGP Unit 3 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. APP-ME1C-VDR-001 Revision 0, AP1000 ME1C RNS Normal Residual Heat Removal Heat Exchanger Design Report
2. SVP_SV0_003266, Attachment 2, Submittal of Inspections, Test, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 3 ITAAC 2.3.06.09b.i (374) (Verification of RNS Heat Exchanger UA Value)