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Southern Nuclear Operating Company  
Vogtle Electric Generating Plant Unit 3  
Completion of ITAAC 2.1 02.07a.i

The purpose of this letter is to notify the Nuclear Regulatory Commission (NRC) of the Simulated completion of Vogtle Electric Generating Plant (VEGP) Unit 3, Inspection, Test, Analysis and Acceptance Criteria (ITAAC) Item 2.1 02.07a.i for the harsh environment qualification of equipment in the Reactor Coolant System identified in Table 2.1.2-1 of the AP1000 DCD in accordance with 10 CFR 52.99(c)(1). The closure process for this ITAAC is based on the guidance described in NEI 08-01 (Reference 1), which is endorsed by NRC Regulatory Guide 1.215.

**ITAAC Statement**

**Design Commitment:**

*The Class 1E equipment identified in Table 2.1.2-1 as being qualified for a harsh environment can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function.*

**Inspections, Tests, Analysis:**

*(i) Type tests, analyses, or a combination of type tests and analyses will be performed on Class 1E equipment located in a harsh environment.*

**Acceptance Criteria:**

*(i) A report exists and concludes that the Class 1E equipment identified in Table 2.1.2-1 as being qualified for a harsh environment can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function.*

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NRD

### **ITAAC Determination Basis**

Equipment qualification reports for the Class 1E equipment identified in DCD Tier 1 Table 2.1.2-1 as being qualified for a harsh environment conclude that the equipment can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function. For Class 1E electrical components, type testing was performed in accordance with IEEE 323-1974 (Reference 3) and Regulatory Guide 1.89, "Qualification of Class 1E Equipment for Nuclear Power Plants", to meet the requirements of 10 CFR 50.49, "Environmental Qualification of Electrical Equipment Important to Safety for Nuclear Power Plants." For safety-related mechanical equipment, such as tanks and valves, type testing meets the requirements of Appendix A to 10 CFR Part 50, General Design Criterion 4, "Fluid Systems."

Equipment Qualification Data Packages (EQDP) are identified in Table 1 (enclosure to this letter) for each safety-related mechanical or Class 1E electrical component located in a harsh environment. These EQDPs contain applicable test reports and associated documentation and conclude that the listed components are qualified to perform their required function. EQDPs comply with the requirements in AP1000 DCD Tier 2 Chapter 3 and are included in the ITAAC completion package (Reference 2).

Safety-related electrical and mechanical equipment has been qualified using testing, analysis, or a combination of testing and analysis in accordance with IEEE-323 and RG 1.89. The specific qualification method used for each component is identified in Table 1 (enclosure to this letter). Additional information about the methods used to qualify safety-related equipment supplied for the AP1000 is provided in Appendix 3D, "Methodology for Qualifying AP1000 Safety-Related Electrical and Mechanical Equipment" of the AP1000 DCD (Reference 4).

### **ITAAC-Related Construction Finding Review**

In accordance with procedures for ITAAC closure, Southern Nuclear performed a review of ITAAC-related construction findings pertaining to the subject ITAAC. This review identified one relevant ITAAC-related construction finding.

ITAAC-related construction finding #2010001-01 – Failure to Adequately Substantiate the Basis for Environmental Qualification of Class 1E Equipment.

The ITAAC completion review determined that all corrective actions associated with the finding are complete and the finding is closed. The NRC closure of this finding is documented in the NRC Construction Inspection Program Management System (CIPMS). The ITAAC Completion Package (Reference 2) documents the closure of ITAAC 2.1 2.07a.i and is available for NRC inspection.

**ITAAC Completion Statement**

Based on the above information for VEGP Unit 3, Southern Nuclear hereby notifies the NRC that ITAAC 2.1 02.07a.i was performed and 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.

Southern Nuclear 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 Jim T. Davis at 706-826-5544.

Sincerely,



J. T. Davis  
Vogtle 3 & 4 Licensing Supervisor  
SNC Nuclear Development

JTD/faw

Enclosure: Completion of ITAAC 2.1 02.07a.i

**References (available for NRC inspection)**

1. NEI 08-01, Industry Guideline for the ITAAC Closure Process Under 10 CFR Part 52.
2. SV3 ITAAC 2.1 02.07a.i ITAAC Completion Package.
3. IEEE 323-1974 – IEEE Standard for Qualifying Class 1E Equipment for Nuclear Power Generating Stations 1.89.
4. APP-GW-GL-700, AP1000 Design Control Document, Appendix 3D.
5. Equipment Qualification Data Packages as identified in Table 1 (enclosure to this letter).

cc: Southern Nuclear Operating Company

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Department of Energy

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**Southern Nuclear Operating Company**

**ND-11-0491**

**Enclosure**

**Completion of ITAAC 2.1 02.07a.i**

**Table 1**  
**Equipment Qualification Document Package Listing**

<b>Equipment Name</b>	<b>Tag Number</b>	<b>Class 1E/ Qual for Harsh Envir.</b>	<b>Qualification Program</b>	<b>Type of Qualification</b>	<b>EQDP Report Number</b>
<b>First-stage ADS Motor-operated Valve (MOV)</b>	<b>RCS-PL-V001A</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV01</b>
<b>First-stage ADS MOV</b>	<b>RCS-PL-V001B</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV01</b>
<b>Second-stage ADS MOV</b>	<b>RCS-PL-V002A</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV01</b>
<b>Second-stage ADS MOV</b>	<b>RCS-PL-V002B</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV01</b>
<b>Third-stage ADS MOV</b>	<b>RCS-PL-V003A</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV01</b>
<b>Third-stage ADS MOV</b>	<b>RCS-PL-V003B</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV01</b>
<b>Fourth-stage ADS Squib Valve</b>	<b>RCS-PL-V004A</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV70</b>
<b>Fourth-stage ADS Squib Valve</b>	<b>RCS-PL-V004B</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV70</b>
<b>Fourth-stage ADS Squib Valve</b>	<b>RCS-PL-V004C</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV70</b>
<b>Fourth-stage ADS Squib Valve</b>	<b>RCS-PL-V004D</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV70</b>

<b>Equipment Name</b>	<b>Tag Number</b>	<b>Class 1E/ Qual for Harsh Envir.</b>	<b>Qualification Program</b>	<b>Type of Qualification</b>	<b>EQDP Report Number</b>
<b>ADS Discharge Header A Vacuum Relief Valve</b>	<b>RCS-PL-V010A</b>	<b>Yes/Yes</b>	<b>M*</b>	<b>Type Testing</b>	<b>EQDP PV18</b>
<b>ADS Discharge Header B Vacuum Relief Valve</b>	<b>RCS-PL-V010B</b>	<b>Yes/Yes</b>	<b>M*</b>	<b>Type Testing</b>	<b>EQDP PV18</b>
<b>First-stage ADS Isolation MOV</b>	<b>RCS-PL-V011A</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV01</b>
<b>First-stage ADS Isolation MOV</b>	<b>RCS-PL-V011B</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV01</b>
<b>Second-stage ADS Isolation MOV</b>	<b>RCS-PL-V012A</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV01</b>
<b>Second-stage ADS Isolation MOV</b>	<b>RCS-PL-V012B</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV01</b>
<b>Third-stage ADS Isolation MOV</b>	<b>RCS-PL-V013A</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV01</b>
<b>Third-stage ADS Isolation MOV</b>	<b>RCS-PL-V013B</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV01</b>
<b>Fourth-stage ADS MOV</b>	<b>RCS-PL-V014A</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV01</b>
<b>Fourth-stage ADS MOV</b>	<b>RCS-PL-V014B</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV01</b>
<b>Fourth-stage ADS MOV</b>	<b>RCS-PL-V014C</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV01</b>
<b>Fourth-stage ADS MOV</b>	<b>RCS-PL-V014D</b>	<b>Yes/Yes</b>	<b>M* &amp; E* (Note 1)</b>	<b>Type Testing</b>	<b>EQDP PV01</b>

<b>Equipment Name</b>	<b>Tag Number</b>	<b>Class 1E/ Qual for Harsh Envir.</b>	<b>Qualification Program</b>	<b>Type of Qualification</b>	<b>EQDP Report Number</b>
Reactor Vessel Head Vent Valve	RCS-PL-V150A	Yes/Yes	M* & E* (Note 1)	Type Testing	EQDP PV13
Reactor Vessel Head Vent Valve	RCS-PL-V150B	Yes/Yes	M* & E* (Note 1)	Type Testing	EQDP PV13
Reactor Vessel Head Vent Valve	RCS-PL-V150C	Yes/Yes	M* & E* (Note 1)	Type Testing	EQDP PV13
Reactor Vessel Head Vent Valve	RCS-PL-V150D	Yes/Yes	M* & E* (Note 1)	Type Testing	EQDP PV13
RCS Cold Leg 1A Narrow Range Temperature Sensor	RCS-JE-TE121A	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Cold Leg 1B Narrow Range Temperature Sensor	RCS-JE-TE121B	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Cold Leg 1B Narrow Range Temperature Sensor	RCS-JE-TE121C	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Cold Leg 1A Narrow Range Temperature Sensor	RCS-JE-TE121D	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Cold Leg 2B Narrow Range Temperature Sensor	RCS-JE-TE122A	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Cold Leg 2A Narrow Range Temperature Sensor	RCS-JE-TE122B	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Cold Leg 2A Narrow Range Temperature Sensor	RCS-JE-TE122C	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Cold Leg 2B Narrow Range Temperature Sensor	RCS-JE-TE122D	Yes/Yes	E*	Type Testing	EQDP C1E



<b>Equipment Name</b>	<b>Tag Number</b>	<b>Class 1E/ Qual for Harsh Envir.</b>	<b>Qualification Program</b>	<b>Type of Qualification</b>	<b>EQDP Report Number</b>
RCS Cold Leg 1A Dual Range Temperature Sensor	RCS-JE-TE125A	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Cold Leg 2A Dual Range Temperature Sensor	RCS-JE-TE125B	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Cold Leg 1B Dual Range Temperature Sensor	RCS-JE-TE125C	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Cold Leg 2B Dual Range Temperature Sensor	RCS-JE-TE125D	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Hot Leg 1 Narrow Range Temperature Sensor	RCS-JE-TE131A	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Hot Leg 2 Narrow Range Temperature Sensor	RCS-JE-TE131B	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Hot Leg 1 Narrow Range Temperature Sensor	RCS-JE-TE131C	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Hot Leg 2 Narrow Range Temperature Sensor	RCS-JE-TE131D	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Hot Leg 1 Narrow Range Temperature Sensor	RCS-JE-TE132A	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Hot Leg 2 Narrow Range Temperature Sensor	RCS-JE-TE132B	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Hot Leg 1 Narrow Range Temperature Sensor	RCS-JE-TE132C	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Hot Leg 2 Narrow Range Temperature Sensor	RCS-JE-TE132D	Yes/Yes	E*	Type Testing	EQDP C1E

<b>Equipment Name</b>	<b>Tag Number</b>	<b>Class 1E/ Qual for Harsh Envir.</b>	<b>Qualification Program</b>	<b>Type of Qualification</b>	<b>EQDP Report Number</b>
RCS Hot Leg 1 Narrow Range Temperature Sensor	RCS-JE-TE133A	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Hot Leg 2 Narrow Range Temperature Sensor	RCS-JE-TE133B	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Hot Leg 1 Narrow Range Temperature Sensor	RCS-JE-TE133C	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Hot Leg 2 Narrow Range Temperature Sensor	RCS-JE-TE133D	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Hot Leg 1 Wide Range Temperature Sensor	RCS-JE-TE135A	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Hot Leg 2 Wide Range Temperature Sensor	RCS-JE-TE135B	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Wide Range Pressure Sensor	RCS-JE-PT140A	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Wide Range Pressure Sensor	RCS-JE-PT140B	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Wide Range Pressure Sensor	RCS-JE-PT140C	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Wide Range Pressure Sensor	RCS-JE-PT140D	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Hot Leg 1 Level Sensor	RCS-JE-LT160A	Yes/Yes	E*	Type Testing	EQDP C1E
RCS Hot Leg 2 Level Sensor	RCS-JE-LT160B	Yes/Yes	E*	Type Testing	EQDP C1E
Passive Residual Heat Removal (PRHR) Return Line Temperature Sensor	RCS-JE-TE161	Yes/Yes	E*	Type Testing	EQDP C1E
Pressurizer Pressure Sensor	RCS-JE-PT191A	Yes/Yes	E*	Type Testing	EQDP C1E
Pressurizer Pressure Sensor	RCS-JE-PT191B	Yes/Yes	E*	Type Testing	EQDP C1E

<b>Equipment Name</b>	<b>Tag Number</b>	<b>Class 1E/ Qual for Harsh Envir.</b>	<b>Qualification Program</b>	<b>Type of Qualification</b>	<b>EQDP Report Number</b>
Pressurizer Pressure Sensor	RCS-JE-PT191C	Yes/Yes	E*	Type Testing	EQDP C1E
Pressurizer Pressure Sensor	RCS-JE-PT191D	Yes/Yes	E*	Type Testing	EQDP C1E
Pressurizer Level Reference Leg Temperature Sensor	RCS-JE-TE193A	Yes/Yes	E*	Type Testing	EQDP C1E
Pressurizer Level Reference Leg Temperature Sensor	RCS-JE-TE193B	Yes/Yes	E*	Type Testing	EQDP C1E
Pressurizer Level Reference Leg Temperature Sensor	RCS-JE-TE193C	Yes/Yes	E*	Type Testing	EQDP C1E
Pressurizer Level Reference Leg Temperature Sensor	RCS-JE-TE193D	Yes/Yes	E*	Type Testing	EQDP C1E
Pressurizer Level Sensor	RCS-JE-LT195A	Yes/Yes	E*	Type Testing	EQDP C1E
Pressurizer Level Sensor	RCS-JE-LT195B	Yes/Yes	E*	Type Testing	EQDP C1E
Pressurizer Level Sensor	RCS-JE-LT195C	Yes/Yes	E*	Type Testing	EQDP C1E
Pressurizer Level Sensor	RCS-JE-LT195D	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 1A Bearing Water Temperature Sensor	RCS-JE-TE211A	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 1A Bearing Water Temperature Sensor	RCS-JE-TE211B	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 1A Bearing Water Temperature Sensor	RCS-JE-TE211C	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 1A Bearing Water Temperature Sensor	RCS-JE-TE211D	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 1B Bearing Water Temperature Sensor	RCS-JE-TE212A	Yes/Yes	E*	Type Testing	EQDP C1E

<b>Equipment Name</b>	<b>Tag Number</b>	<b>Class 1E/ Qual for Harsh Envir.</b>	<b>Qualification Program</b>	<b>Type of Qualification</b>	<b>EQDP Report Number</b>
RCP 1B Bearing Water Temperature Sensor	RCS-JE-TE212B	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 1B Bearing Water Temperature Sensor	RCS-JE-TE212C	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 1B Bearing Water Temperature Sensor	RCS-JE-TE212D	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 2A Bearing Water Temperature Sensor	RCS-JE-TE213A	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 2A Bearing Water Temperature Sensor	RCS-JE-TE213B	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 2A Bearing Water Temperature Sensor	RCS-JE-TE213C	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 2A Bearing Water Temperature Sensor	RCS-JE-TE213D	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 2B Bearing Water Temperature Sensor	RCS-JE-TE214A	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 2B Bearing Water Temperature Sensor	RCS-JE-TE214B	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 2B Bearing Water Temperature Sensor	RCS-JE-TE214C	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 2B Bearing Water Temperature Sensor	RCS-JE-TE214D	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 1A Pump Speed Sensor	RCS-JE-ST281	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 1B Pump Speed Sensor	RCS-JE-ST282	Yes/Yes	E*	Type Testing	EQDP C1E
RCP 2A Pump Speed Sensor	RCS-JE-ST283	Yes/Yes	E*	Type Testing	EQDP C1E

<b>Equipment Name</b>	<b>Tag Number</b>	<b>Class 1E/ Qual for Harsh Envir.</b>	<b>Qualification Program</b>	<b>Type of Qualification</b>	<b>EQDP Report Number</b>
<b>RCP 2B Pump Speed Sensor</b>	<b>RCS-JE-ST284</b>	<b>Yes/Yes</b>	<b>E*</b>	<b>Type Testing</b>	<b>EQDP C1E</b>

E\* - Electrical Equipment Program (Harsh Environment)

M\* - Mechanical Equipment Program (Harsh Environment)

Note 1 - The Mechanical part is for the valve and the electrical part is for the limit switch and the motor operator, the squib operator, or the solenoid operator.

STANDARD