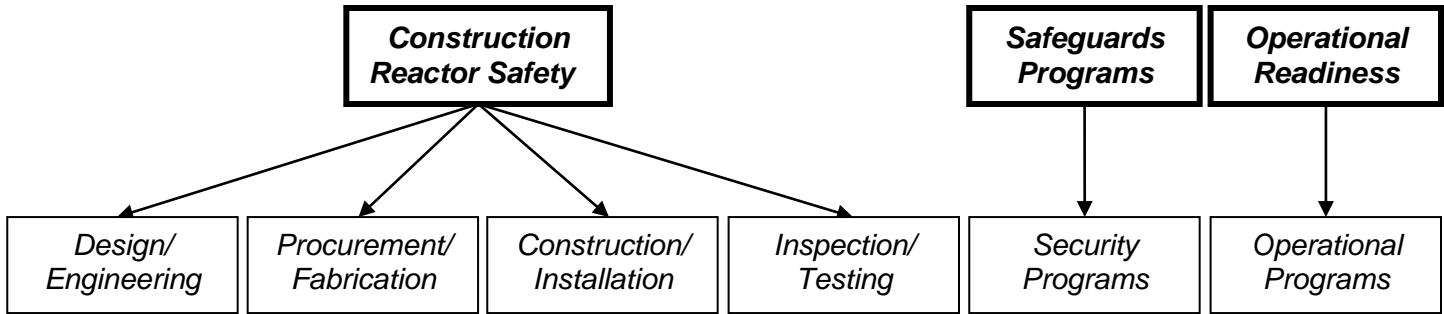


## Vogle Unit 3 4Q/2014 Performance Summary

[Construction Action Matrix Column:](#)  
[Licensee Response](#)



### Most Significant Inspection Findings

4Q/2014	No findings this quarter	No findings this quarter	<b>G</b>	No findings this quarter	No findings this quarter	No findings this quarter
3Q/2014	<b>G</b>	No findings this quarter	<b>G</b>	No findings this quarter	No findings this quarter	No findings this quarter
2Q/2014	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter
1Q/2014	<b>G</b>	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter

### Additional Inspection and Assessment Information

- ❖ [List of Construction Inspection Reports](#)
- ❖ [List of Construction Assessment Reports/Inspection Plans](#)

## Design Engineering

---

**Identified By:** NRC

**Identification Date:** 09/30/2014

**Significance:** Green

**Item Type:** ITAAC Finding

### **Failure to Correctly Translate Shear Reinforcement Design Requirements into Design Drawings**

The inspectors identified an ITAAC finding of very low safety significance (Green) and associated non-cited violation (NCV) of 10 CFR Part 50, Appendix B, Criterion III, "Design Control" for the licensee's failure to correctly translate design basis requirements into specifications, drawings, procedures, and instructions. The licensee entered the issue into their corrective action program as condition report 877796, and took immediate actions to revise the drawings and related design calculation to restore compliance with the American Concrete Institute (ACI) 349-01 Code prior to the concrete placement.

The finding was associated with the Design/Engineering cornerstone. The inspectors determined the performance deficiency was more than minor because it represented a substantive non-conservative error in a design document that defines the technical requirements for the shear reinforcement in the innermost west and east steam generator compartments at elevation 80'-0". The inspectors evaluated the finding using the construction significance determination process and determined the finding was of very low safety significance (Green) because the licensee was able to demonstrate with reasonable assurance that the design function of the applicable structure would not be impaired by the deficiency. The finding was determined to be an ITAAC finding because it was material to the acceptance criteria of Unit 3 ITAAC 760. The acceptance criteria of this ITAAC requires that a reconciliation report, concluding the "as-built" construction conforms to the approved design, is completed for the areas associated with the ITAAC. This finding is associated with deviations from design requirements that would not have been reconciled by the licensee as required by the ITAAC, because the design drawings contained deviations, which did not meet ACI 349-01, which is a Tier 2\* licensing commitment for Seismic Category I structures. This finding has a cross-cutting aspect in the area of Human Performance, Documentation, because the licensee failed to ensure that procedures, such as construction drawings and work packages, were accurate and adequate to assure construction quality. [H.7]

**Identified By:** NRC

**Identification Date:** 03/31/2014

**Significance:** Green

**Item Type:** ITAAC Finding

### **Inadequate Anchorage of Shear Stirrups in Precast Elements of Reinforced Concrete Slabs**

The inspectors identified an ITAAC finding of very low safety significance (Green) and associated non-cited violation of 10 CFR Part 50, Appendix B, Criterion III, "Design Control" for SNC's failure, through their contractor Westinghouse, to correctly translate regulatory requirements into specifications, drawings, procedures, and instructions. During an inspection of precast concrete panels being fabricated for use as elements of the reinforced concrete slabs in the elevated floors of the Unit 3 auxiliary building, the inspectors observed that the design did not conform to the requirements of ACI 349-01, a Tier 2\* licensing commitment for Seismic Category I structures. Specifically, longitudinal bars were missing from some of the bends in the U-stirrups that had been installed for resistance and transfer of vertical and horizontal shear forces, respectively. The presence of a longitudinal bar in the bends of the stirrups is required by Section 12.13.3 of ACI 349-01 to provide adequate anchorage of the stirrups.

The inspectors determined the performance deficiency was more than minor because it represented a substantive non-conservative error in a design document that defines the technical requirements for the reinforced concrete slabs in the auxiliary building. The inspectors evaluated the finding using the construction significance determination process and determined the finding was of very low safety significance (Green) because installation of the precast panels had not begun. The finding was determined to be an ITAAC finding because it was material to the acceptance criteria of Unit 3 ITAAC 763. The acceptance criteria of this ITAAC requires that a reconciliation report, concluding the “as-built” construction conforms to the approved design, is completed for the areas associated with the ITAAC. This finding is associated with deviations from design requirements that would not have been reconciled by the licensee as required by the ITAAC. The inspectors screened the finding for a possible construction cross-cutting aspect (CCA) and determined that it was not related to any of the CCAs discussed in IMC 0613.

[Back to Top](#)

## Procurement/Fabrication

---

[Back to Top](#)

## Construction/Installation

---

**Identified By:** NRC

**Identification Date:** 12/31/2014

**Significance:** Green

**Item Type:** ITAAC Finding

### **Failure to Establish Qualified Welding Procedures In Accordance With American Welding Society (AWS) D1.1:2000**

The inspectors identified an ITAAC finding of very low safety significance (Green) and associated non-cited violation (NCV) of 10 CFR Part 50, Appendix B, Criterion IX, “Special Processes,” for the licensee’s failure to assure that special processes, including welding, were controlled and accomplished using qualified procedures in accordance with applicable codes, standards, specifications, criteria, and other special requirements. The licensee entered the issue into their corrective action program under condition report numbers 898717, 10008446, and 10009103, and took immediate actions to revise three welding procedure specifications to meet American Welding Society (AWS) D1.1: 2000 and post-qualify them to justify a “use-as-is” disposition for the associated welds in CA01, CA05, and CA20.

The finding was associated with the Construction/Installation cornerstone. The inspectors determined the performance deficiency was more than minor because the issue was similar to the “not minor if” statement of example 6 in IMC 0613, “Power Reactor Construction Inspection Reports,” Appendix E, in that the issue was related to a change in an essential variable, and the welding procedure specification (WPS) required re-qualification. The inspectors evaluated the finding using the construction significance determination process and determined the finding was of very low safety significance (Green) because the licensee was able to create additional procedure qualification records to post-qualify the WPSs and disposition the associated welds “use-as-is.” The finding was determined to be an ITAAC finding because it was material to the acceptance criteria of Unit 3 ITAACs 3.3.00.02a.i.a (760) and 3.3.00.02a.i.d (763). The acceptance criteria of these ITAACs require that a reconciliation report, concluding the as-built structure conforms to the approved design and will withstand the design basis loads without loss of structural integrity is completed for the areas associated with the ITAAC. This finding is associated with

deviations from design requirements that would not have been reconciled by the licensee, as required by the ITAAC, because the welds were not welded with qualified welding procedures resulting in a deviation from AWS D1.1:2000 and a failure to meet Section Q1.17, "Welds," of American Institute of Steel Construction (AISC) N690:1994 requirements. This finding has a crosscutting aspect in the area of Human Performance - Resources because the licensee failed to ensure that procedures were adequate to assure construction quality. Specifically, the licensee failed to ensure that welding procedures were qualified in accordance with the Code. [H.1]

**Identified By:** NRC

**Identification Date:** 09/30/2014

**Significance:** Green

**Item Type:** ITAAC Finding

### **Failure to Install Structural Reinforcement in Accordance with ACI 349-01 Development Length Requirements**

The inspectors identified an ITAAC finding of very low safety significance (Green) and associated NCV of 10 CFR Part 50, Appendix B, Criterion V, "Instructions, Procedures, and Drawings," for the licensee's failure to correctly install structural reinforcement in accordance with approved design drawings. The licensee entered this issue into their corrective action program as CR 877795, and removed the nonconforming reinforcement, revised the design drawings, and re-installed the reinforcement according to the revised design.

The finding was associated with the Construction/Installation Cornerstone. The inspectors determined the performance deficiency was more than minor because it represented an adverse condition that rendered the quality of a system, structure, or component unacceptable or indeterminate and required substantive corrective action. The inspectors evaluated the finding using the construction significance determination process and determined the finding was of very low safety significance (Green) because the licensee was able to demonstrate with reasonable assurance that the design function of the applicable structure would not be impaired by the deficiency. The finding was determined to be an ITAAC finding because it was material to the acceptance criteria of Unit 3 ITAAC 760. The acceptance criteria of this ITAAC requires that a reconciliation report, concluding the "as-built" construction conforms to the approved design, is completed for the areas associated with the ITAAC. This finding is associated with deviations from design requirements that would not have been reconciled by the licensee as required by the ITAAC, because the as-built configuration contained deviations that did not meet ACI 349-01, which is a Tier 2\* licensing commitment for Seismic Category I structures. This finding has a cross-cutting aspect in the area of Human Performance, Field Presence, because the licensee failed to ensure that supervisory and management oversight of work activities, including contractors, was adequate and sufficient enough such that construction quality is supported and assured. [H.2]

[Back to Top](#)

## **Inspection/Testing**

---

[Back to Top](#)

## **Security Programs**

---

[Back to Top](#)

## Operational Programs

---

[Back to Top](#)