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10 CFR 21.21

May 23, 2014

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

SUBJECT: INTERIM 10 CFR PART 21 REPORT REGARDING THREADED ENDS OF  
REBAR FOR OVERLAY PLATES FOR VOGTLE UNITS 3 AND 4 AP1000  
PROJECT

The attachment to this letter provides an interim report in accordance with 10 CFR 21.21  
pertaining to threaded ends of rebar to be used as connections for overlay plates for Vogtle  
AP1000 project Auxiliary Building construction.

Evaluation for reportability in accordance with 10 CFR Part 21 was not able to be completed  
within the 60-day evaluation period due to the need to collect additional information to  
determine the impact of the identified issue. It is currently expected that the evaluation of these  
conditions will be completed by July 21, 2014.

If you have any questions pertaining to this information, please contact Curtis Castell, Licensing  
Manager, at 980-321-8314.

Sincerely,

Don DePierro  
Senior Vice President, Nuclear

cc: Regional Administrator, USNRC, Region II

Attachment

JE19  
NRO

INTERIM 10 CFR PART 21 REPORT REGARDING THREADED ENDS OF REBAR FOR  
OVERLAY PLATES FOR VOGTLE UNITS 3 AND 4 AP1000 PROJECT

This report is being provided as an interim report in accordance with 10 CFR 21.21.

(i) Name and address of the individual or individuals informing the Commission.

Don DePierro  
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(ii) Identification of the facility, the activity, or the basic component supplied for such facility or such activity within the United States which fails to comply or contains a defect.

No basic components have been determined to fail to comply or contain a defect. This is an interim report. Based on quality control inspection of rebar received from SMCI Division of MetalTek International, it was discovered that 123 out of 852 reinforcing bars (size #6 rebar) threaded ends inspected did not conform to the inspection acceptance criteria. The rebar was intended for use as attachments for overlay plates in various Auxiliary Building locations for the Vogtle AP1000 construction project.

(iii) Identification of the firm constructing the facility or supplying the basic component which fails to comply or contains a defect.

No basic components have been determined to fail to comply or contain a defect. This is an interim report. The rebar was supplied by SMCI Division of MetalTek International, 4015 Drane Field Road, Lakeland, FL 22813.

(iv) Nature of the defect or failure to comply and the safety hazard which is created or could be created by such defect or failure to comply.

No basic components have been determined to fail to comply or contain a defect. This is an interim report. Deviations in rebar threading can impact the load bearing capability of reinforced concrete structures. Further data gathering, evaluation, and possibly testing is needed in order to determine the effects associated with the identified deviations. The supplier (SMCI) has notified CB&I Power by letter dated May 22, 2014 that they intend to assist with these determinations and testing, as necessary.

The deviations were identified during inspection of the material at the Vogtle site prior to use, which is consistent with previously implemented corrective actions for similar deviations identified in safety-related rebar. These actions were identified in a voluntary 10 CFR Part 21 report submitted by Shaw Power Group, dated May 14, 2012. That report states that pre-installation inspection of rebar was to be continued. The inspections being performed identified

the deviations and prevented the use of the nonconforming material. Therefore, the material identified with deviations was segregated and prevented from being used in the facilities under construction.

(v) The date on which the information of such defect or failure to comply was obtained.

The discovery date of the deviation is March 24, 2014, based on earliest date of completed inspections that identified deviations in the rebar.

(vi) In the case of a basic component which contains a defect or fails to comply, the number and location of these components in use at, supplied for, being supplied for, or may be supplied for, manufactured, or being manufactured for one or more facilities or activities subject to the regulations in this part.

No basic components have been determined to fail to comply or contain a defect. This is an interim report.

(vii) The corrective action which has been, is being, or will be taken; the name of the individual or organization responsible for the action; and the length of time that has been or will be taken to complete the action.

No basic components have been determined to fail to comply or contain a defect. This is an interim report.

Actions are in the process of being determined for this condition. Additional information is needed to complete the evaluation required by 10 CFR Part 21. It is currently expected that the evaluation of these conditions will be completed by July 21, 2014.

(viii) Any advice related to the defect or failure to comply about the facility, activity, or basic component that has been, is being, or will be given to purchasers or licensees.

None at this time.

(ix) In the case of an early site permit, the entities to whom an early site permit was transferred.

Not applicable.