

Part 21 (PAR)

Event # 49083

<b>Rep Org:</b> WESTINGHOUSE ELECTRIC COMPANY		<b>Notification Date / Time:</b> 05/31/2013 12:09 (EDT)	
<b>Supplier:</b> WESTINGHOUSE ELECTRIC COMPANY		<b>Event Date / Time:</b> 05/31/2013 (EDT)	
<b>Last Modification:</b> 05/31/2013			
<b>Region:</b> 1	<b>Docket #:</b>		
<b>City:</b> CRANBERRY TOWNSHIP	<b>Agreement State:</b>	Yes	
<b>County:</b>	<b>License #:</b>		
<b>State:</b> PA			
<b>NRC Notified by:</b> JAMES GRESHAM		<b>Notifications:</b> BRIAN BONSER R2DO	
<b>HQ Ops Officer:</b> MARK ABRAMOVITZ		PART 21 - REACTORS	
<b>Emergency Class:</b> NON EMERGENCY			
<b>10 CFR Section:</b>			
21.21(a)(2)		INTERIM EVAL OF DEVIATION	

PART-21 INTERIM REPORT - PRESSURIZER SUPPORT LOADS FOR AP-1000

"The deviation being evaluated is an identified inconsistency between the applied design loads for the AP 1000 plant pressurizer support columns and embedments and the calculated actual loads. As a result, certified for construction drawings have been delivered to customers of the AP 1000 plant new build projects with an incorrect pressurizer support column embedment design configuration. The planned changes to the embedments to correct this deviation for the pressurizer support columns will be reflected on revised certified for construction drawings but do not require changes to the current licensing basis. The certified for construction drawings have been delivered to U.S. AP 1000 plant new build customers: V.C. Summer Units 2 and 3, and A.W. Vogtle Units 3 and 4."

Further information is available from Westinghouse: James Gresham, 412-374-4643.

\*\*\*\*\*

IE19  
MRR



Westinghouse Electric Company  
Nuclear Services  
1000 Westinghouse Drive  
Cranberry Township, Pennsylvania 16066

U.S. Nuclear Regulatory Commission  
Document Control Desk  
11555 Rockville Pike  
Rockville, MD 20852

Direct tel: (412) 374-4643  
Direct fax: (412) 374-3846  
e-mail: greshaja@westinghouse.com

LTR-NRC-13-35

May 31, 2013

**Subject: Interim Report of the Evaluation of a Deviation Pursuant to 10 CFR 21.21(a)(2)**

The purpose of this letter is to provide the Commission with the prescribed interim report as required per 10CFR21.21 (a)(2) of a deviation identified by Westinghouse Electric Company LLC. (This also will serve as an interim report under 10 CFR 50.55 (e)(3)(ii) to the extent applicable.) The deviation being evaluated is an identified inconsistency between the applied design loads for the AP1000<sup>®1</sup> plant pressurizer support columns and embedments and the calculated actual loads. As a result, certified for construction drawings have been delivered to customers of the AP1000 plant new build projects with an incorrect pressurizer support column embedment design configuration.

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

James A. Gresham  
Westinghouse Electric Company  
Nuclear Services  
1000 Westinghouse Drive, Suite 310  
Cranberry Township, PA 16066

- (ii) Identification of the facility, the activity, or the basic component supplied for such facility or such activity within the United States which contains a deviation which is under evaluation.

As noted above, the deviation being evaluated is an identified inconsistency between the applied design loads for the AP1000 plant pressurizer support columns and embedments and the calculated actual loads. As a result, certified for construction drawings have been delivered to customers with an incorrect pressurizer support column embedment design configuration. Westinghouse has not yet concluded its determination as to whether there is a defect as defined by 10CFR21 (or any non-compliance under 10 CFR 50.55(e) to the extent applicable) if the deviation is left uncorrected.

<sup>1</sup> AP1000 is a registered trademark of Westinghouse Electric Company LLC, its affiliates and/or its subsidiaries in the United States of America and may be registered in other countries throughout the world. All rights reserved. Unauthorized use is strictly prohibited.

The AP1000 plant Design Control Document (DCD), Revision 19 has been delivered to the U.S. customers and incorporated into their Combined Licenses (COLs). The planned changes to the embedments to correct this deviation for the pressurizer support columns will be reflected on revised certified for construction drawings but do not require changes to the current licensing basis.

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

Westinghouse Electric Company  
1000 Westinghouse Drive  
Cranberry Township, Pennsylvania 16066

- (iv) Nature of the deviation.

Pursuant to the AP1000 plant Design Control Document (DCD), Revision 19, the embedded portions of the AP1000 plant pressurizer component supports are to be designed according to AISC N690 and ACI 349. The original embedment design configuration for the AP1000 plant pressurizer columns as reflected in the delivered certified for construction drawings does not meet the requirements of AISC N690 and ACI 349. As a result, certified for construction drawings have been delivered to the customer with an incorrect pressurizer support column embedment design configuration.

- (v) The case of a basic component which contains the deviation, the number and location of these components in use at, supplied for, being supplied for, or may be supplied for, one or more facilities or activities subject to the regulations in this part.

The basic component for which this interim report is filed are the certified for construction drawings for the AP1000 plant pressurizer which is supported by four columns mounted to the pressurizer component floor. As noted above, the certified for construction drawings have been delivered to U.S. AP1000 plant new build customers, V.C. Summer Units 2 and 3, and A.W. Vogtle Units 3 and 4.

- (vi) The corrective action which has been, 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.

Westinghouse is working to complete a root cause analysis and evaluation of the safety significance of this issue. Westinghouse will complete the 10 CFR Part 21 (and as applicable 10 CFR 50.55(e)) evaluation by July 31, 2013.

- (vii) Any advice related to the deviation that has been, or will be given to purchasers or licensees/customers.

The affected licensees/customers have been made aware of this issue through verbal and electronic communications and by a copy of this correspondence. Communications resulting from the subject Westinghouse evaluation to be provided to affected licensees/customers will depend on the conclusions derived from the Westinghouse detailed assessment.

Very truly yours,



James A. Gresham, Secretary  
Westinghouse Safety Review Committee

cc: E. Lenning (NRC MS O-11-F1)  
B. Whitley (SNC)  
A. Paglia (SCANA)