

52-006

Part 21 (PAR)

Event # 49781

<b>Rep Org:</b> WESTINGHOUSE ELECTRIC COMPANY		<b>Notification Date / Time:</b> 01/31/2014 13:39 (EST)	
<b>Supplier:</b> WESTINGHOUSE ELECTRIC COMPANY		<b>Event Date / Time:</b> 01/31/2014 (EST)	
<b>Last Modification:</b> 01/31/2014			
<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>	GERALD MCCOY	R2DO
<b>HQ Ops Officer:</b> DANIEL MILLS		PART 21 GROUP	EMAIL
<b>Emergency Class:</b> NON EMERGENCY		ART BURRITT	R1DO
<b>10 CFR Section:</b>			
21.21(a)(2)	INTERIM EVAL OF DEVIATION		
50.55(e)	CONSTRUCT DEFICIENCY		

PART 21/50.55 - AP1000 UPDATED REACTOR COOLANT PUMP LOCKED ROTOR ANALYSIS

The following was received via facsimile:

"The purpose of this letter is to provide the Commission with the prescribed interim report as required per 10 CFR 21.21(a)(2) of a deviation identified by Westinghouse Electric Company LLC. This also will serve as an interim report under 10 CFR 50.55 (3)(ii) to the extent applicable.

"A postulated reactor coolant pump (RCP) locked rotor (LR) transient has been explicitly analyzed for the AP1000 steam generator (SG) structural design, as documented in the latest AP1000 Design Control Document (DCD), Revision 19. This includes the calculation of LR hydrodynamic forces (HF) on the SG using the BANG UP code. This activity was performed based upon the unique features of the AP1000 design. However, the other AP1000 reactor coolant system (RCS) structural component analyses have not considered the locked rotor transient for hydrodynamic forces, even though a determination has been made that the effects of these loads could be more bounding than the limiting design-basis loss of coolant accident (LOCA) hydrodynamic forces (based on the BANG UP calculation of pressure pulsations through the RCS).

"Westinghouse has not yet completed its evaluation as to whether there is a reportable condition as defined in 10 CFR 21 (or 10 CFR 50.55 to the extent applicable) if the deviation is left uncorrected.

"Westinghouse expects to complete this evaluation by September 30, 2014. We will inform the staff if there are any changes to this schedule, prior to that date."

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Doc 3  
IE 19  
NRD



Westinghouse Electric Company  
Engineering, Equipment and Major Projects  
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-14-5

January 29, 2014

**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 10 CFR 21.21 (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.

A postulated reactor coolant pump (RCP) locked rotor (LR) transient has been explicitly analyzed for the AP1000<sup>®</sup> steam generator (SG) structural design, as documented in the latest AP1000 Design Control Document (DCD), Revision 19. This includes the calculation of LR hydrodynamic forces (HF) on the SG using the BANGUP code. This activity was performed based upon the unique features of the AP1000 design. However, the other AP1000 reactor coolant system (RCS) structural component analyses have not considered the locked rotor transient for hydrodynamic forces, even though a determination has been made that the effects of these loads could be more bounding than the limiting design-basis loss of coolant accident (LOCA) hydrodynamic forces (based on the BANGUP calculation of pressure pulsations through the RCS).

Westinghouse has not yet completed its evaluation as to whether there is a reportable condition as defined in 10 CFR 21 (or 10 CFR 50.55(e) to the extent applicable) if the deviation is left uncorrected.

Westinghouse expects to complete this evaluation by September 30, 2014. We will inform the staff if there are any changes to this schedule, prior to that date.

Very truly yours,

A handwritten signature in black ink, appearing to read "J. Gresham".

James A. Gresham, Secretary  
Westinghouse Safety Review Committee

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