

Part 21 (PAR)

Event # 49904

<b>Rep Org:</b> VALCOR ENGINEERING CORPORATION		<b>Notification Date / Time:</b> 03/12/2014 18:24 (EDT)	
<b>Supplier:</b> VALCOR ENGINEERING CORPORATION		<b>Event Date / Time:</b> 01/11/2014 (EDT)	
<b>Last Modification:</b> 09/05/2014			
<b>Region:</b> 1	<b>Docket #:</b>		
<b>City:</b> SPRINGFIELD	<b>Agreement State:</b> Yes		
<b>County:</b>	<b>License #:</b>		
<b>State:</b> NJ			
<b>NRC Notified by:</b> JIMMY SHIEH		<b>Notifications:</b> KATHLEEN O'DONOHUE	R2DO
<b>HQ Ops Officer:</b> CHARLES TEAL		PART 21 GROUP	EMAIL
<b>Emergency Class:</b> NON EMERGENCY			
<b>10 CFR Section:</b>			
21.21(a)(2) INTERIM EVAL OF DEVIATION			

## PART 21 - AP-1000 SOLENOID OPERATED VALVES LEAKAGE

The following was excerpted from a fax received from Valcor Engineering Corporation:

"Background:

"Valcor was chosen by WEC [Westinghouse Electric Corporation] as a supplier to the AP-1000 for the ASME Section III Class 1, 2 and 3 Solenoid Operated Valves. As part of the specification requirements Valcor is required to perform qualification testing in accordance with the requirements of IEEE-323-1974, IEEE-344-1987 and IEEE-382-1996.

"Discovery:

"On Saturday January 11th, 2014, Valcor's lab technician discovered that the hard faced seat of an AP-1000 Solenoid Operated qualification valve had a crack through the thickness of the valve seat to the outlet port that caused the valve to leak in the closed position beyond its Technical Specification requirement (WEC Specification APP-PV13-ZOD-101). The subject valve had undergone heat rise testing to determine actuator temperatures during its specified design basis conditions. As part of the qualification process (IEEE-323) and in accordance with the test procedure the subject valve is given a factory acceptance test (FAT) at each stage of the qualification program.

"The valve design is unique to the model (V526-5631-36/40) in that the dimensional constrain resulted in a web thickness of the hard faced seat that is thinner than our standard historical valve designs. A total of eight (8) valves of this configuration (four (4) for Valve Model Number V525-5631-36 and four (4) for Model number V526-5631-40) have been delivered to Westinghouse for installation in the Sanmen and Haiyang nuclear power plants located in

IE19  
NRO



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September 5, 2014

NRC Operations Center

Fax 301-816-5151

Subject: Closure to Interim Report

Reference: Report initially filed on 3-12-14, revised 3-13-14 and updated 8-15-14

Westinghouse has informed Valcor that none of the affected valves have been installed and they are quarantined from accidental installation. Valcor therefore is not required to pursue 10CFR21 reporting further and we consider the report closed.

Jimmy Shieh  
Quality Assurance Director