

Part 21 (PAR)

Event # 46776

<b>Rep Org:</b> CURTISS WRIGHT FLOW CONTROL CO.	<b>Notification Date / Time:</b> 04/22/2011 12:46 (EDT)
<b>Supplier:</b> CURTISS WRIGHT FLOW CONTROL CO.	<b>Event Date / Time:</b> 04/22/2011 (CDT)
	<b>Last Modification:</b> 04/22/2011
<b>Region:</b> 1	<b>Docket #:</b>
<b>City:</b> HUNTSVILLE	<b>Agreement State:</b> Yes
<b>County:</b>	<b>License #:</b>
<b>State:</b> AL	
<b>NRC Notified by:</b> TONY GILL	<b>Notifications:</b> PART 21 GROUP
<b>HQ Ops Officer:</b> MARK ABRAMOVITZ	JONATHAN BARTLEY R2DO
<b>Emergency Class:</b> NON EMERGENCY	
<b>10 CFR Section:</b>	
21.21 UNSPECIFIED PARAGRAPH	

POTENTIAL DEFECT IN SUBMERSIBLE VALVE POSITION SENSORS

"This letter is issued to provide notification of a potential defect in QualTech NP Top Potted Generation 3 Quick Disconnect Connector Pin Side assemblies installed on Topworx C7 and SV7 Switches. All assemblies supplied prior to April 20, 2011 are potentially affected. These assemblies were supplied to Topworx [as] submergence qualified in accordance with our Test Report EGS-TR-23009-14. It was discovered during supplemental qualification testing that previously supplied assemblies may not properly seal against moisture intrusion if utilized in a submergence application.

"The recommended corrective action for existing assemblies is to pressure test and if required repair them. Corrective actions already implemented will be effective in preventing recurrence of this condition. Additionally, all future assemblies will be required to pass pressure testing prior to acceptance.

"It has been confirmed that all assemblies previously supplied are for use in Chinese Nuclear Power Plants and therefore, no US plants are affected." Most of the assemblies are still in this country and the remainder are in Switzerland awaiting shipment. All assemblies will be recalled and pressure tested.

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IE19  
IE20



QualTech  
125 West Park Loop  
Huntsville, AL 35806  
Phone: 256.722.8500 • Fax: 256.722.8533  
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FAX TRANSMITTAL

DATE: 4-22-11

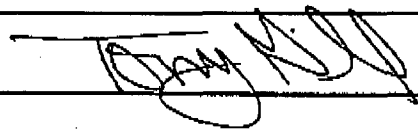
TO: US NRC

FAX NO: 301-816-5151

FROM: Tony Gill  
cell 256-426-4558

COMMENTS/INSTRUCTIONS:

Please see attached notification  
letter concerning a potential  
defect under 10CFR 21.

 4-22-11

TRANSMITTAL INCLUDES COVER SHEET PLUS 1 PAGE(S).



Huntsville Operations  
125 West Park Loop  
Huntsville, AL 35806  
256-722-8500

(File No.: QTHuntsville10CFR21-2011-01)

April 22, 2011

To whom it may concern:

This letter is issued to provide notification of a potential defect in QualTech NP Top Potted Generation 3 Quick Disconnect Connector Pin Side assemblies installed on Topworx C7 and SV7 Switches. All assemblies supplied prior to April 20, 2011 are potentially affected. These assemblies were supplied to Topworx as submergence qualified in accordance with our Test Report EGS-TR-23009-14. It was discovered during supplemental qualification testing that previously supplied assemblies may not properly seal against moisture intrusion if utilized in a submergence application.

Investigations revealed two probable causes for the potential defect. The primary cause was due to inadequate assembly instructions concerning setscrew sealing. A secondary cause was post production testing did not require verification of pressure integrity for this type of connector/switch assembly.

One hundred thirty six assemblies with the potential defect were still in inventory at our facility. All one hundred thirty six were pressure tested to verify pressure integrity. Thirty two were found to be leaking and required repair. A repair instruction was generated and thirty one were repaired (one was rejected due to a visual defect). All thirty one repaired assemblies passed the pressure test confirming the instruction was adequate to fix the leak. Additionally, the affected assembly instruction was revised to better define and control the set screw sealing process and an additional 50 assemblies were built using the revised instruction. All fifty of these assemblies passed the pressure test confirming that the revised instruction was effective in preventing the leakage.

The recommended corrective action for existing assemblies is to pressure test and if required repair them in the same manner as those identified above. Corrective actions already implemented will be effective in preventing recurrence of this condition. Additionally, all future assemblies will be required to pass pressure testing prior to acceptance.

It has been confirmed that all assemblies previously supplied are for use in Chinese Nuclear Power Plants and therefore no US Plants are affected.

Additional details will be provided in the formal written report. Please contact Tony Gill at 256-722-8500 ext. 131 (office), 256-426-4558 (cell) or [tgill@curtisswright.com](mailto:tgill@curtisswright.com) for additional information.

Sincerely,

A handwritten signature in black ink that reads 'Kurt Mitchell'. The signature is written in a cursive style with a large initial 'K'.

Kurt Mitchell  
General Manager  
QualTech NP, a business unit of Curtiss-Wright Flow Control Company  
Office 301.854.3432  
<http://qualtechnp.cwfc.com>  
[kmitchell@curtisswright.com](mailto:kmitchell@curtisswright.com)