

Part 21 (PAR)

Event # 47063

Rep Org: QUALTECH NP	Notification Date / Time: 07/15/2011 20:43 (EDT)		
Supplier: QUALTECH NP	Event Date / Time: 07/15/2011 (EDT)		
	Last Modification: 07/15/2011		
Region: 3	Docket #:		
City: CINCINNATI	Agreement State:	Yes	
County:	License #:		
State: OH			
NRC Notified by: KURT MITCHELL	Notifications:	TAMARA BLOOMER	R3DO
HQ Ops Officer: DONALD NORWOOD		SCOTT FREEMAN	R2DO
Emergency Class: NON EMERGENCY		PART 21 GRP by EMAIL	
10 CFR Section:			
21.21	UNSPECIFIED PARAGRAPH		

POTENTIAL DEFECT IN QUALTECH NP SAFETY RELATED MOTOR CONTROL CENTER BUCKETS

The following information was received via facsimile from QualTech NP:

"This letter is issued to provide initial notification of a potential defect in QualTech NP safety related MCC buckets, which were commercial grade dedicated at our Cincinnati facility. On June 9, 2011, TVA Watts Bar Unit 2 notified QualTech NP of a failure on a transformer module associated with an indicator light on the MCC bucket. Based on our investigations, QualTech NP has identified quality and performance issues relating to the 480 VAC input (primary side) portion of the subject indicating light. The light in question has shown the potential to flash/arc internally on the primary winding side of the built in transformer and create a substantial fault current. This fault current not only disables the light but can be large enough to trip the upstream circuit breaker, thus disabling all associated safety related circuitry.

"The issues appear to revolve around inconsistent and poor quality fabrication methods employed during manufacturing, primarily with how the wires were wrapped in critical areas of the primary and how they were routed and attached to the termination points.

"The recommended corrective action for existing safety related MCC buckets is to replace the indicator light and transformer module with a newly qualified acceptable substitute. The new indicator light and transformer module will go through a series of dedication inspections and tests to ensure that a similar failure does not occur.

"Based on review of our records, Tennessee Valley Authority is the only customer to have these defective modules."

JEI 9
NRR

QualTech NP
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www.qualtechnp.cwfc.com



July 15, 2011

To whom it may concern:

This letter is issued to provide initial notification of a potential defect in QualTech NP safety related MCC buckets, which were commercial grade dedicated at our Cincinnati facility. On June 9, 2011 TVA Watts Bar Unit 2 notified QualTech NP of a failure on a transformer module associated with an indicator light on the MCC bucket. Based on our investigations, QualTech NP has identified quality and performance issues relating to the 480 VAC input (primary side) portion of the subject indicating light. The light in question has shown the potential to flash/arc internally on the primary winding side of the built in transformer and create a substantial fault current. This fault current not only disables the light but can be large enough to trip the upstream circuit breaker, thus disabling all associated safety related circuitry.

The issues appears to revolve around inconsistent and poor quality fabrication methods employed during manufacturing, primarily with how the wires were wrapped in critical areas of the primary and how they were routed and attached to the termination points.

The recommended corrective action for existing safety related MCC buckets is to replace the indicator light and transformer module with a newly qualified acceptable substitute. The new indicator light and transformer module will go through a series of dedication inspections and tests to ensure that a similar failure does not occur.

Based on review of our records, Tennessee Valley Authority is the only customer to have these defective modules.

Additional details will be provided in the formal written report. Please contact Tim Franchuk at 513-528-7900 ext. 176 (office), 803-422-2927 (cell) or via email tfranchuk@curtisswright.com for any additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Kurt Mitchell", with a small "for" written below it.

Kurt Mitchell
General Manager
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