

Part 21 (PAR)

Event # 50935

<b>Rep Org:</b> UNITED CONTROLS INTERNATIONAL		<b>Notification Date / Time:</b> 03/27/2015 17:33 (EDT)	
<b>Supplier:</b> UNITED CONTROLS INTERNATIONAL		<b>Event Date / Time:</b> 01/30/2015 (EDT)	
<b>Last Modification:</b> 03/22/2016			
<b>Region:</b> 1	<b>Docket #:</b>		
<b>City:</b> NORCROSS	<b>Agreement State:</b> Yes		
<b>County:</b>	<b>License #:</b>		
<b>State:</b> GA			
<b>NRC Notified by:</b> LUIS SANCHEZ		<b>Notifications:</b> TODD JACKSON	R1DO
<b>HQ Ops Officer:</b> MARK ABRAMOVITZ		PART 21/50.55 REACTORS	EMAIL
<b>Emergency Class:</b> NON EMERGENCY			
<b>10 CFR Section:</b>			
21.21(a)(2) INTERIM EVAL OF DEVIATION			

## PART-21 NOTIFICATION - SENSE AND TRANSFER MODULE RESISTIVE SHORT

The following excerpted report was received via e-mail:

"Sense & Transfer Module (part number 41-09-339904) was provided to PSEG under purchase order 4500726553. The customer identified an abnormal curve trace (resistive short) on the integrated circuit installed at location IC825 pin 6 on this printed circuit board. The customer performed an evaluation which included dissection of the subject IC [integrated circuit] however, this dissection provided inconclusive results as to the cause of the IC anomaly.

"At this time, UCI requires additional time to evaluate the results provided by PSEG and to work with the manufacturer in identifying the root cause. UCI currently considers this issue to be an isolated event as no previous instances of this failure have been observed by UCI to date. PSEG has returned the item to UCI for evaluation and rework [received by UCI on 3/25/2015].

"If you have any questions or wish to discuss this matter or this report, please contact:

Wesley Hickie  
Procurement Engineer  
whickle@unitedcontrols.com  
770-496-1406 x 165"

Potentially affected plants are Salem and Hope Creek.

\*\*\* UPDATE ON 3/22/16 AT 1511 EDT FROM KORINA LOOFT TO DONG PARK \*\*\*

FE19  
NRR

The following excerpted report was received via e-mail:

"Follow up to previously reported by United Controls International (UCI) as requiring additional evaluation time and to correct purchase order information previously reported to the NRC with a report in general conformity of the requirements of 10 CFR Part 21.21."

Notified R1DO (McKinley) and Part 21 group via email.

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## **10CFR21 FOLLOW UP LETTER**

March 22, 2016

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington D.C. 20555-0001

Subject: 10CFR21 Follow Up Letter for Event# 50935, United Controls International Not Capable to Complete Part 21 Evaluation & Correction of Reported Information

The purpose of this letter is to follow up on Event# 50935 previously reported by United Controls International (UCI) as requiring additional evaluation time and to correct purchase order information previously reported to the NRC with a report in general conformity of the requirements of 10CFR Part 21.21. On January 30, 2015 United Controls International issued a Return Material Authorization (RMA) request to Public Service Electric & Gas (PSEG). The RMA was issued to request the return of a Sense & Transfer Module of part number 41-09-339904 that was provided to PSEG under purchase order 4500172211. The customer identified an abnormal curve trace (resistive short) on the Integrated Circuit (IC) installed at location IC825 pin 6 on this printed circuit board. The customer performed an evaluation which included dissection of the subject IC, however, this dissection provided inconclusive results as to the cause of the IC anomaly.

UCI is not capable of performing additional evaluation of this item because evaluation of the suspect IC by the customer resulted in inconclusive results and during this inspection the suspect IC was destroyed; thus, further evaluation of this component could not be performed. The manufacturer (Thomas & Betts Power Solutions) was unable to provide additional details regarding the failure of the subject IC. UCI considers this issue to be an isolated event as no previous instances of this failure have been observed by UCI to date. PSEG has returned the item to UCI for evaluation and rework.

UCI notified PSEG on January 30, 2015 that the subject Sense & Transfer Module needed to be returned.

Required information as per 10CFR Part 21.21(d)(4) follows:

- (i) ***Name and Address of the individual or individuals informing the Commission***  
Rob Hale  
President  
United Controls International  
205 Scientific Drive  
Norcross, GA 30092



- (ii) **Identification of the facility, the activity, or the basic component supplied for such facility or such activity within the United States which fails to comply or contains a defect.**

Thomas & Betts Power Solutions/Cyberex Sense & Transfer Module of part number 41-09-339904 was found to have abnormal curve traces at pin 6 of the integrated circuit installed at board location IC825. The item was supplied to Public Service Electric & Gas under Purchase Order 4500172211.

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

United Controls International  
205 Scientific Drive  
Norcross, GA 30092

- (iv) **Nature of the defect or failure to comply and the safety hazard which is created or could be created by such defect or failure to comply.**

Failure of the sense and transfer module may result in an operability failure of the host inverter unit.

- (v) **The date on which the information of such defect or failure to comply was obtained.**

January 30, 2015

- (vi) **In the case of a basic component which contains a defect or fails to comply, the number and location of these components in use at, supplied for, being supplied for, or may be supplied for, manufactured or being manufactured for one or more facilities or activities subject to the regulations in this Part.**

Part Number	Utility	Purchase Order	Quantity
41-09-339904	PSEG	4500172211	1
		4500377127	1
		4500471119	5
		4500518634	3
		4500601554	2
		4500670681	3
		4500627273	1
		4500726553	3



- (vii) *The corrective action which has been, is being, 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.*

UCI has performed its own internal evaluation on the returned item, however, UCI does not have the capability to perform an evaluation of the operability of the item because UCI does not have the system required for testing. The subject item was returned to the manufacturer for evaluation; however, the manufacturer was unable to provide additional details as to the cause of the failure. UCI implemented a manufacturer bench test and customer system level test during dedication of part number 41-09-339904 as well as a component level evaluation to verify that the manufacturer specified components are installed.

- (viii) *Any Advice related to the defect or failure to comply about the facility, activity, or basic component that has been, is being, or will be given to purchasers or licensees.*

Not Applicable.

- (ix) *In the case of an early site permit, the entities to whom an early site permit was transferred.*

Not Applicable.

If you have any questions or wish to discuss this matter or this report, please contact:

Wesley Hickie  
Engineering Manager  
[whickle@unitedcontrols.com](mailto:whickle@unitedcontrols.com)  
770-496-1406 x 165

Sincerely,

Rob Hale  
President  
United Controls International