



10CFR21 NOTIFICATION LETTER

October 28, 2021

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

Subject: 10CFR21 Notification for York P/N: TCM-1A Temperature Control Modules

The purpose of this letter is to provide the NRC with a report in general conformity of the requirements of 10CFR Part 21.21. On June 18, 2021 STP Nuclear Operating Company returned a York P/N: TCM-1A temperature control module with the reported issue that the module would not respond in auto or manual vane control and that internal relays 1R and 2R would not pick up. The subject temperature control module was previously supplied by STP Nuclear Operating Company to UCI for refurbishment and modification, after which was supplied by UCI on March 13, 2017. Troubleshooting performed by UCI identified that the secondary of the Basler Electric BE13410001 transformer (component T1) that is used to isolate and step down the input voltage from 115VAC to 22VAC had an open circuit. When the subject transformer was bypassed the module operated as designed. UCI is unable to determine the cause of the transformer failure. Post refurbishment/modification testing performed by UCI included verifying functionality of the unit before and after performance of a 48 hr. burn-in period.

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.***
Basler Electric BE13410001 115/22V Transformer installed in York TCM-1A
Temperature Control Module
- (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 subject transformer will result in an open circuit at the input power to the temperature control module resulting in the module being inoperable.

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

UCI issued a Return Material Authorization on November 11, 2020 & the items were received at UCI for evaluation on June 18, 2021.

- (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.***

The following temperature control modules were supplied by STP Nuclear Operating Company for safety-related refurbishment and/or modification by UCI and were determined as containing or are likely to contain the subject transformer.

Part Number	Utility	Purchase Order	Quantity
TCM-1A or UCI-TCM-1A	STP Nuclear Operating Company	198062	5
		210878	1
		215856	1
		254556	1
		254559	1

- (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 implemented an increased energized burn-in test period from 48hr. to 100hr. to provide greater assurance that the transformers installed on the modules will not fail in the manor described here-in. Prior to and following the burn-in period the modules are subjected to functional testing.

- (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.***

None.

- (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 Hickle
Engineering Manager
whickle@unitedcontrols.com
470-610-0870

Sincerely,

A handwritten signature in black ink that reads 'Rob Hale'. The signature is written in a cursive style with a large initial 'R'.

Rob Hale
President
United Controls International