From:	Richard Knott
To:	Hoc, HOO X
Subject:	[External_Sender] Interim 10CFR Part 21 Notification P21-06052023-INT
Date:	Monday, June 5, 2023 6:24:57 PM
Attachments:	Interim Report P21-06052023-INT .pdf

Good Evening,

Please see attached Interim Report provided per 10CFR Part 21 section 21.21(a)(2).

Please let me know if there are any questions regarding this submittal.

Best Regards,
Richard

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Paragon

6/05/2023

To: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555
Fax Number (301)816-5151

10CFR Part 21 Interim Notification: P21-06052023-INT

Subject: Reporting of a Potential Defect with Trane External Auto/Stop and Emergency Stop Relay Card PN: X13650728-06 Requiring Additional Time to Evaluate

Pursuant to 10CFR 21.21 (a)(2), Paragon Energy Solutions, LLC is providing this interim notification of ongoing analysis for Part 21 reportability of a potential defect with the subject relay card.

Potential Affected Plants:

Plant	Customer PO#	Line #	CatID/Item #	QTY
NINE MILE POINT	00631665	1	1677945-1	1
NINE MILE POINT	7736804	7	495385	1
NINE MILE POINT	00680931	1	1677945-1	2
CATAWBA	00173787	27	886875	4
CH-531 Chiller Control Panel Projects Which May Have Installed Relay Cards				
RIVERBEND	10322999			
MCGUIRE	00049845 00049846 00049842			
CATAWBA	00106394			

Condition being evaluated:

On April 5th, 2023, Duke Catawba Nuclear Station informed Paragon of a failure of the relay card upon installation into the CH-531 control panel during planned maintenance on the chiller system. Following replacement, the relay module bound to the Adaptiview system correctly, but the chiller attempted to start without signal to start from the control room. The issue was discovered when the chiller initiated diagnostics for missing evaporator water flow. Flow was not maintained on the chiller due to continued maintenance; however, an internal failure of the 1A13 module (X13650728-06) caused the module to read a closed contact at terminals J3-1/2 which would ordinarily come from closure of the control room start contact. The failure was readily determined during system restoration.

The affected card was originally supplied to Catawba in December 2014 with three other units which have been tested satisfactorily at the plant. The specific failure noted above would not prevent the chiller from performing its safety function. To date this is the only failure of the affected part number which has been

reported to Paragon. Our analysis of the failed relay card has identified minor delamination and water intrusion of the microcontroller chip (date code 1308) installed. This is the only anomaly identified to date, and therefore it is difficult to determine 1) if this condition could exist in more units and 2) if this condition could cause the relay card to fail in a manner that could prevent the chiller from performing its safety function.

Date when evaluation is expected to be complete: 7/15/2023.

Regards,

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