

Part 21 (PAR)

Event # 52677

Rep Org: ABB INC	Notification Date / Time: 04/13/2017 14:04 (EDT)
Supplier: ABB INC	Event Date / Time: 02/15/2017 (EDT)
	Last Modification: 04/13/2017
Region: 1	Docket #:
City: CORAL SPRINGS	Agreement State: Yes
County:	License #:
State: FL	
NRC Notified by: RICHARD LINDO	Notifications: MARVIN SYKES R2DO
HQ Ops Officer: HOWIE CROUCH	MARK JEFFERS R3DO
Emergency Class: NON EMERGENCY	PART 21/50.55 REACTORS EMAIL
10 CFR Section:	
21.21(d)(3)(i) DEFECTS AND NONCOMPLIANCE	

PART 21 REPORT - VENDOR SUPPLIED INCORRECT RELAYS FOR CLASS 1E APPLICATION

In 1993, ABB Switchgear Division supplied 12 ABB Ground-Shield ground fault relays to the Point Beach Nuclear Plant that did not meet the seismic qualifications required of Class 1E rated relays.

This deviation is for GKT relay model 202L.

If you have any questions regarding this notice, please contact ABB Technical Support at 954-752-6700 or 1-800-222-1946.

IEI9
NRR



April 13, 2017

US Nuclear Regulatory Commission
Washington, DC 20555-001

Subject: 10 C.F.R. Part 21 Notification of Deviation - GKT Relay

Dear Sir or Madam:

This letter provides notification of a deviation for ABB Ground-Shield ground fault relay, type GKT, style 202L2118-UL.

On February 15, 2017, ABB discovered that the GKT relay model, 202L series, did not meet seismic qualification test specifications. This was identified during an engineering evaluation of the effect of a change in material.

Seismic qualification testing was performed for the ABB Ground-Shield ground fault relays, types GKC and GKT on May 25, 1988. Seismic qualification was based on a test series performed using the GKT model, 202L series. Qualification was not successful due to test switch circuitry, which includes a normally closed contact, creating an unwanted operation during seismic testing. This test switch exists only in the GKT relay - thus only the GKC relay model, 202R series passed at a Zero Period Acceleration (ZPA) of 6.0g. All additional GKC and GKT qualification testing was completed satisfactorily.

The GKC and GKT relays have both adjustable pickup current and time delay settings and are designed for use as a system with a type GS Sensor, to provide time-current coordinated ground fault protection.

Our investigation determined that ABB failed to take action to prevent the availability of GKT relays for Class 1E application. ABB sales literature incorrectly identifies the availability of GKT relays for Class 1E application.

Records show a total of 12 GKT relays, style 202L2118-UL, serial numbers 74437 thru 74448, were provided to ABB Switchgear Division on September 30, 1993. End user is Wisconsin Electric Power (Nextera Energy) for use at the Point Beach Nuclear Plant.

ABB does not have the capability to perform the evaluation to determine if a defect exists, thus we are notifying the purchasers or affected licensees of this determination so that they may evaluate the deviation, pursuant to 10 C.F.R. 21.21(b).

ABB recommends that the affected licensee evaluate their specific application and determine whether the deviation described in this notice affects their design basis. If it is determined that it does, the licensee should contact ABB to determine appropriate corrective action.

ABB has implemented the following actions:



- ABB sales literature has been revised to remove the availability of GKT relays for Class 1E Applications.
- ABB performed an extent of condition evaluation to determine if this situation existed in other Solid State 1E relays. No other similar situation was found.
- Current ABB Contract Review procedures include verification of 1E qualification to the ordered style number.

If you have any questions regarding this notice, please contact ABB Technical Support 954-752-6700 or 1-800-222-1946.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Richard Lindo', written over a light blue horizontal line.

Richard Lindo
General Manager

A handwritten signature in black ink, appearing to read 'Bryan Tauzer', written over a light blue horizontal line.

Bryan Tauzer
Quality Manager