



May 13, 2004

Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Subject: Report of Potential Defect per 10CFR Part 21  
Indicating Instantaneous Trip Unit on Type CO and COM Relays

Notification By: ABB Inc.  
Automation Technology Products Division  
4300 Coral Ridge Drive  
Coral Springs, FL 33065

This letter is to notify you of a potential defect concerning the Indicating Instantaneous Trip (IIT) unit on our Class 1E type CO and COM Relays.

In October, 2003 Duke Energy Corporation returned four of our Class 1E type CO relays for an investigation as to the cause and the corrective action for heat deformed sleeving on the IIT unit tap screws.

The results of our investigation concluded the probable cause for the deformation of the sleeving was the generation of excessive heat as a result of the tap screw being loose.

Several combined manufacturing process outputs which when combined with one or more external factors, i.e. ambient temperature and ac current flow, provides for the potential for movement of the molded insert to which the tap screw mates. Movement of the insert in turn would cause loosening of the tap screw, subsequent generation of excessive heat and the deformation of the tap screw sleeving.

As corrective action we have redesigned the insert and the tool that seats the insert, and have more than doubled our insert push-out inspection acceptance criteria.

The results of our investigation concluded that potentially affected relays were manufactured between July 1, 1998 and December 20, 2003.

All customers who our records indicate have purchased the potentially affected relays shall be promptly notified to return them for replacement of the IIT unit. The customers and (quantity) are as follows; Duke Energy Corporation, Seneca, S.C. (229), ABB Inc., Florence S.C. (37), WESCO, Murrysville, PA (15), and K-Tek International, Inc., Portland, OR (6).

Questions concerning this notification should be directed to the Quality Manager at the Automation Technology Products Division at 954-752-6700 or Fax 954-345-5329.

Roy Ball  
Quality Manager

J. Brock Hemmingsen  
General Manager

ABB Inc.