

INTERIM REPORT NO. 1 FOR REPORTABLE  
DEFICIENCY NO. 79/10 AS DEFINED IN 10 CFR 50.55(e)

I. Description of Deficiency:

Rosemount Incorporated has identified a problem with the gross failure output function of both the Master and Slave Trip Units of the Rosemount Model 510 DU Trip Calibration System. The problem identified is that when the gross failure output is energized and the Trip Unit is operated through the preset trip points, the gross failure output may inadvertently reset.

During proper operation, the gross fail output will turn on when the transmitter current passes out of the normal transmitter current range (normal range is 4 to 20mA). A gross fail indicator light will turn on and the gross fail output will remain on until the transmitter current returns to the normal current range and the reset button is manually depressed on the front panel of the trip unit.

However, it was found that on some units, as the transmitter current changes from a gross fail condition to a normal condition and if the trip point is passed during this change, the transient from the switching of the trip output load can reset the SCR (Silicon-Controlled Rectifier). For proper operation, only the reset button should reset the SCR.

II. Safety Implications

The gross failure output is used to inform the operator of the bypass or inoperable status of the systems when the trip units are in the calibration mode per NRC Regulatory Guide 1.47. If the gross failure outputs are erroneously reset, it is conceivable that redundant trip units could

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II. Safety Implications

be left in the calibration mode in violation of Technical Specifications without the operator being aware of the condition.

III. Corrective Action Taken

Remedial and preventive corrective action is expected to be completed by November 16, 1979, and submitted to you in a final report.