

CORE SPRAY HEADER DIFF. PRESS. RV-30A

ON FEBRUARY 25, 1974, DURING ROUTINE SURVEILLANCE TESTING, ONE CORE SPRAY DIFFERENTIAL PRESSURE INSTRUMENT (RV-30A, BARTON 285-4802) WAS FOUND TO ACTUATE LOWER THAN THE VALUE AS SPECIFIED ON THE SURVEILLANCE CHECK LIST. NOMINAL SET POINT IS 5 PSID AND THE INSTRUMENT OPERATED AT 3.5 PSID. REASON FOR THE CHANGE IS ATTRIBUTED TO SET POINT DRIFT. A MODIFICATION TO THE BARTON SWITCH WILL BE DONE WHICH SHOULD SUBSTANTIALLY ELIMINATE DRIFT IN THESE INSTRUMENTS.

THESE INSTRUMENTS ARE DESIGNED AND INTENDED TO PROVIDE AN ALARM ONLY AND SERVE NO PROTECTIVE CIRCUITRY FUNCTION.

THE PRIMARY FUNCTION OF THESE INSTRUMENTS IS TO INDICATE A LOSS OF INTEGRITY OF THE CORE SPRAY PIPING BETWEEN THE REACTOR VESSEL WALL AND THE SHROUD INSIDE THE REACTOR VESSEL. IF LOSS OF INTEGRITY SHOULD OCCUR THE DIFFERENTIAL PRESSURE INSTRUMENT WOULD READ ESSENTIALLY RECIRCULATION PUMP DIFFERENTIAL PRESSURE IN THE RANGE OF 20-25 PSID. WITH THE LOWERED SET POINT ON THIS INSTRUMENT THE ALARM WOULD OCCUR SOONER THEREFORE THE CHANGE WAS CONSERVATIVE AND NO HAZARD WOULD HAVE BEEN PRESENTED TO THE PLANT OR THE GENERAL PUBLIC. THE INSTRUMENT WAS CALIBRATED TO NOMINAL VALUE PENDING OUTCOME OF THE SET POINT MODIFICATION.

T.J. PERKINS
STATION SUPERINTENDENT
NINE MILE POINT NUCLEAR STATION

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