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MSG: 0273X/84  
TO: MR. R. C. DEYOUNG  
FROM: THOMAS J. SHIDELER, ITT BARTON INSTRUMENTS COMPANY  
DATE: OCTOBER 11, 1984  
RE: NOTIFICATION OF DEFECT IN ACCORDANCE WITH 10CFR PART 21

ITT BARTON IS A SUPPLIER OF BASIC COMPONENTS TO THE NUCLEAR POWER INDUSTRY. THE SPECIFIC COMPONENTS BEING REPORTED ARE OUR MODEL 580A, MODEL 581A, AND MODEL 583A INDICATING AND NON-INDICATING DIFFERENTIAL PRESSURE SWITCHES. (THE MODEL 581-4 HYDRAULIC ISOLATOR USED AS PART OF THE REACTOR VESSEL LEVEL INDICATING SYSTEM IS NOT AFFECTED BY THIS REPORT.) THIS INFORMATION WAS MADE AVAILABLE TO ME ON OCTOBER 11, 1984.

AS A RESULT OF ITT BARTON'S CONTINUING TEST PROGRAM FOR 1E CLASS SAFETY RELATED INSTRUMENTS, A SWITCH SET-POINT SHIFT WHICH EXCEEDS THE SPECIFICATION FOR OUR MODEL 580A SERIES INSTRUMENTS HAS BEEN IDENTIFIED WHEN THEY ARE OPERATED AT TEMPERATURES ABOVE 225 DEGREES FAHRENHEIT (107 DEGREES CENTIGRADE). THE SHIFT HAS BEEN IDENTIFIED AS BEING THE RESULT OF RELIEVING OF STRESSES IN A SWITCH PLATE ASSEMBLY WHICH IS A SUB-ASSEMBLY OF THE COMPLETE INSTRUMENT.

IT HAS ALSO BEEN DETERMINED THAT, ONCE THE STRESS RELIEVING HAS ACCOMPLISHED, THE SWITCH SET-POINT SHIFT CONDITION IS ELIMINATED AND THE INSTRUMENTS, WITH STABILIZED SWITCH ASSEMBLIES INSTALLED, PERFORM WELL WITHIN SPECIFICATION LIMITS.

A REVIEW HAS BEEN CONDUCTED OF ALL CUSTOMER ORDERS FOR MODEL 580 SERIES INSTRUMENTS. THE PURPOSE OF THIS REVIEW WAS TO IDENTIFY THOSE APPLICATIONS WHERE THE CUSTOMER'S REQUIREMENTS FOR INSTRUMENT PERFORMANCE MAY EXCEED TEMPERATURES OF 225 DEGREES FAHRENHEIT (107 DEGREES CENTIGRADE). THOSE CUSTOMERS AFFECTED ARE:

TEXAS UTILITIES GENERATING COMPANY  
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
FLORIDA POWER AND LIGHT  
ROCHESTER GAS AND ELECTRIC  
LONG ISLAND LIGHTING  
CONSOLIDATED EDISON

THESE CUSTOMERS WILL BE NOTIFIED OF THE EXPECTED PERFORMANCE OF THEIR INSTRUMENTS AND, AT THEIR REQUEST, WILL BE PROVIDED WITH STRESS RELIEVED SWITCH ASSEMBLIES AND INSTALLATION INSTRUCTIONS.

NO NEW PARTS OR MATERIALS WERE INTRODUCED INTO THE PRODUCT AS A PART OF THE STRESS RELIEVING PROCESS AND THE TEMPERATURES INVOLVED ARE WITHIN THE MAXIMUM RATING FOR ALL SWITCH PLATE ASSEMBLY COMPONENTS. IT IS ITT BARTON'S OPINION, THEREFORE, THAT THERE IS NO EFFECT ON ANY PREVIOUS QUALIFICATION OF THESE PRODUCTS BY INTRODUCING THE STRESS RELIEVING OPERATION. ALL FUTURE PRODUCTION WILL INCLUDE STRESS RELIEVING OF SWITCH ASSEMBLIES AS A STANDARD OPERATION.

S. ERELY,

Part 21

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