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BBS Ltr.#531-74

Dresden Nuclear Power Station
R. R. #1
Morris, Illinois 60450
July 25, 1974

50-237



Mr. J. F. O'Leary, Director
Directorate of Licensing
U. S. Atomic Energy Commission
Washington, P. C. 20545

SUBJECT: REPORT OF ABNORMAL OCCURRENCE PER SECTION 6.6.B.1.a OF THE
TECHNICAL SPECIFICATIONS.
TURBINE 1ST STAGE PRESSURE SCRAM INSTRUMENT DRIFT.

- References: 1) Regulatory Guide 1.16 Rev. 1 Appendix A
- 2) Notification of Region III of AEC Regulatory Operations
Telephone: Mr. F. Maura, 1145 hours on 7/22/74
Telegram: Mr. J. Keppler, 1330 hours on 7/22/74
- 3) Drawing Number M-12

Report Number: 50-237/74-29

Report Date: July 25, 1974

Occurrence Date: July 20, 1974

Facility: Dresden Nuclear Power Station, Morris, Illinois

IDENTIFICATION OF OCCURRENCE

Pressure switch PS-504C was found to have a setpoint of 397 psi. The purpose of the switch is to prevent a scram due to a turbine trip when the reactor power level is below 45%. This has been found to be equivalent to 395 psi first stage pressure.

CONDITION PRIOR TO OCCURRENCE

Dresden Unit 2 was operating in the run mode at 721 MW. Routine monthly instrument surveillance was in progress.

DESCRIPTION OF OCCURRENCE

During routine surveillance of pressure switch PS-504C its setpoint was found to be 397 psi.

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DESIGNATION OF APPARENT CAUSE OF OCCURRENCE

These instrument calibrations drift due to causes which are unknown at this time. However, Barksdale factory believes the problem is caused by a lack of precycling before use.

ANALYSIS OF OCCURRENCE

Switch PS-504C is one of four switches that provide 45% scram bypass. The remaining three switches operated below the 395 psi limit, and therefore the system was operable at all times.

CORRECTIVE ACTIONS

The immediate corrective action was to reset the switch to 382 psi. In addition, the setpoint target band which was previously 385 \pm 5 psi was lowered to 383 \pm 5 psi. This switch is included in a program now underway to precycle all Barksdale and Meletron switches of this type. This switch is due to be precycled later this year.

FAILURE DATA

Switch PS-504C has had similar failures during June of 1973 (403 psi) December of 1973 (379 psi) and May of 1974 (401 psi). The switch is a Barksdale model B2T-A122SS with a range of 50-1200 psi.

Sincerely,

Arthur M. Rolate

for B. B. Stephenson
Superintendent

BBS:WEH:do