

DRESDEN UNIT 2

CYCLE 8

Startup Test No. 2
Control Rod Operability and Subcritical Check

PURPOSE

The purpose of this test is to assure that no gross large local reactivity irregularities exist, each control blade is latched to its control rod drive, and all control rods are functioning properly.

CRITERIA

- A. Each control rod will be withdrawn after the four fuel bundles surrounding the given control rod are loaded. This will insure that the mobility of the control rod is not impaired.
- B. During the control rod movement, the process computer is used to time the travel of the rod between notches to verify proper withdrawal and insertion times.
- C. After the core is fully loaded, each control rod will be withdrawn and inserted one at a time to assure that criticality will not occur due to the withdrawal of a single rod. Nuclear instrumentation will be monitored during the movement of each control rod to verify subcriticality. Once a control rod is fully withdrawn, it is tested for overtravel by trying to withdraw the rod further. A control rod fails the overtravel check if rod position indication is lost or if the overtravel alarm is received.

RESULTS AND DISCUSSION

Each control rod was withdrawn and inserted after the four fuel bundles surrounding the given control rod were loaded. Control rod mobility was assured.

All control rods were timed during insertion and withdrawal with no abnormalities noted, demonstrating there was no excessive friction inhibiting rod motion.

After the core was loaded, each control rod was withdrawn and inserted one at a time. The Source Range Monitors were observed during the movement of each rod and subcriticality was verified. All of the control rods successfully completed the overtravel checks.

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