



UNITED STATES
ATOMIC ENERGY COMMISSION
DIVISION OF COMPLIANCE
REGION II - SUITE 818
230 PEACHTREE STREET, NORTHWEST
ATLANTA, GEORGIA 30303

526-4503
TELEPHONE JCKXXX

June 23, 1971

CO INQUIRY REPORT NO. 71-06

Duke Power Company
Docket No. 50-269
License No. CPPR-33
Oconee 1

CONTROL ROD DRIVE MECHANISM FAILURES

Prepared By: *C. E. Murphy*
C. E. Murphy, Reactor Inspector (Operations)

6/23/71
Date

On June 15, 1971, J. E. Smith, Superintendent, Oconee Nuclear Station, advised C. E. Murphy, Reactor Inspector, Region II, by telephone that the analysis of test results indicated that several of the control rod drives may have been damaged during scram tests. The following preliminary information was given the inspector during this telecon and a subsequent telecon on June 18, 1971.

1. The control rod drive scram times were measured during functional testing of the mechanisms and found to be too fast.
2. Initial examination of the mechanisms indicated that the motor tubes were not completely filled with water. This indicated that the mechanisms may have been scrambled dry.
3. The four drives around the center drive were stuck with the lead screw threads possibly below the roller nut.
4. Subsequent investigation showed that five drives had the tangs sheared off the torque taker tubes. Three other drives had bent tangs. These eight drives will be replaced.
5. One drive has been removed from the head and will be disassembled completely.
6. The reactor head will be removed and the vessel inspected and any missing pieces of the drive mechanisms will be located and removed.

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June 23, 1971

Smith stated that he would keep the Region advised of any further information determined by their investigation and of the action that they decide to take.

The licensee does not intend to report this matter formally to DRL at this time.