

DUKE POWER COMPANY
OCONEE UNIT 1

SUPPLEMENTAL ABNORMAL OCCURRENCE REPORT AO-269/74-12A

Supplemental Report Date: October 18, 1974

Occurrence Date: August 6, 1974

Facility: Oconee Unit 1, Seneca, South Carolina

Identification of Occurrence: Low boric acid concentration in 1B core flood tank

Conditions Prior to Occurrence: Unit 1 at 100 percent full power

Description of Occurrence: As described in Abnormal Occurrence Report AO-269/74-12 dated August 22, 1974

Analysis of Occurrence:

Due to an unaccountable decrease in boron concentration in the 1B Core Flood Tank for Oconee Unit 1, a two-week special monitoring program, in addition to the normal core flood tank surveillance, was instituted. The source, volume, and boron concentration of all makeup and the level and pressure of the core flood tank were accurately recorded. Analyses were performed daily and after each makeup for boron concentration and isotopic activity.

During the test period, August 19 to September 1, 1974, five additions of borated water were made to the core flood tank from the boric acid mix tank and the high pressure injection system. The observed boron concentrations were in close agreement with calculated boron concentrations. The observed isotopes in the core flood tank indicate the normal species found in makeup from the high pressure injection system. This monitoring program has not identified a mechanism which could have caused the dilution of the contents of the core flood tank which occurred between August 2 and August 6, 1974.

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