SEP 2 9 1981

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DOCKET NO; 70-1151

APELICANT: Westinghouse Electric Company Columbia, South Carolina

SUBJECT: REVIEW OF AMENOMENT APPLICATION DATED JULY 2, 1981 AS SUPPLEMENTED JULY 27, 1981, TO MODIFY LICENSE REQUIREMENTS FOR USE OF BOROSILICATE-GLASS RASCHIG RINGS, 07001151A06S

I. Background

The licensee currently is committed to Regulatory Guide 3.1, "Use of Borosilicate-Glass Raschig Rings as a Neutron Absorber in Solutions of Fissile Material." Per the amendment application, the licensee would follow Regulatory Guide 3.1 when Raschig Rings are used as a primary control for nuclear criticality safety. Different controls for Raschig rings as a secondary control for nuclear criticality safety are proposed in the amendment application.

II. Discussion

The use of Raschig rings as a secondary control is intended to provide additional assurance of safety in uncontrolled geometry vessels wherein nuclear criticality safety is assured by a primary control, e.g., concentration control. The license has proposed to change limits on the chemical environment from a pH of "9-10" to "<11" and to change the maximum fluoride concentration from "1400 ppm" to "4%." The Raschig rings will be inspected annually for settling, physical properties, and boron content. The temperature will not exceed 60°C which compares favorably with 120°C in the ANSI standard, endorsed by Regulatory Guide 3.1.

The Region II Project Inspector has no objection to this amendment.

III. Conclusion and Recommendation

The proposed amendment should have no adverse effect on the public health and safety or on the environment. Apppoval of the application is recommended.

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