



UNITED STATES
NUCLEAR REGULATORY COMMISSION
ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
WASHINGTON, D. C. 20555

March 17, 1981

The Honorable Joseph M. Hendrie
Chairman
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: NUREG-0666, "A PROBABILISTIC SAFETY ANALYSIS OF DC POWER SUPPLY REQUIREMENTS AT NUCLEAR POWER PLANTS"

Dear Dr. Hendrie:

During its 251st meeting, March 12-14, 1981, the Advisory Committee on Reactor Safeguards discussed the draft NUREG-0666, "A Probabilistic Safety Analysis of DC Power Supply Requirements at Nuclear Power Plants," with representatives of the NRC Power Systems Branch (NRR) and the Division of Systems and Reliability Research (RES). The ACRS AC/DC Power Systems Reliability Subcommittee met with NRC Staff members on January 22, 1981 to discuss developments in AC/DC systems reliability, including the draft NUREG-0666.

The ACRS considers the study underlying NUREG-0666 a noteworthy application of the techniques of probabilistic analysis to system reliability problems. Although improvements in this study may well occur in the future, the methods developed in the NUREG-0666 study to identify contributors to unavailability could be utilized now to determine appropriate changes in regulatory requirements.

In the course of considering such changes, we believe an effort to develop goals for DC systems reliability is desirable. Quantitative goals would be very useful, although not necessarily required, in order to proceed at this time.

The ACRS Subcommittee plans to continue meeting with Staff members to identify improvements in AC/DC systems reliability and related regulatory requirements.

Sincerely,

A handwritten signature in black ink, reading "J. Carson Mark". The signature is written in a cursive, flowing style.

J. Carson Mark
Chairman