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DUKE POWER COMPANY

ELECTRIC CENTER, BOX 33189, CHARLOTTE, N. C. 28242

L. C. DAIL
VICE PRESIDENT
DESIGN ENGINEERING

May 29, 1979

Mr. J. P. O'Reilly, Director
U. S. Nuclear Regulatory Commission
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

USNRC REGION II
ATLANTA, GEORGIA
JUN 1 1979
P 1:58

Re: Catawba Nuclear Station
Docket Nos.: 50-413 and 50-414
IE Bulletin: 79-07
Duke File: CN-1412.11-1

Dear Mr. O'Reilly:

Enclosed is Duke Power's response to IE Bulletin 79-07.

Very truly yours,



L. C. Dail
Vice President
Design Engineering

JDW/jmf

Attachment

cc: Nuclear Regulatory Commission
Office of Inspection and Enforcement
Division of Reactor Operations Inspection
Washington, D. C. 20555

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DUKE'S RESPONSE TO IE BULLETIN 79-07 FOR CATAWBA NUCLEAR STATION

With respect to items (1), (2), and (4) of the subject bulletin, we respond as follows:

The EDS Nuclear, Inc. computer program, SUPERPIPE, is being used on all piping analysis except that analysis performed by the NSSS contractor, Westinghouse. Westinghouse is using their program WESTDYNE-7 on the analysis performed by them. Both EDS Nuclear, Inc. and Westinghouse have confirmed that algebraic summation techniques for combining responses were not used.

In answer to paragraph (3) of I.E. Bulletin No. 79-07, the verification of computer programs was done in a combination of ways. Due to the non-existence of the ASME benchmark problems during the time of the original analyses, original versions of programs were verified with hand calculated results. As more and more programs became commercially available, comparisons were made with these programs and with the ASME problems.

Specifically, EDS Nuclear, Inc. used a combination of any or all of the following methods:

1. Comparison to ASME Benchmark Problem #1
2. Benchmark Problems Utilizing EDS Programs and Other Industry Programs (PIPESD, NUPIPE, ME-101)
3. Comparison to Hand Calculations
4. Comparison Between EDS Programs and Updated Versions

The computer code used by Westinghouse, WESTDYNE-7, and the comparison of this program with benchmark problems are contained in the topical report WCAP-8252.