

DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

May 29, 1979

TELEPHONE AREA 704
73-4089

USNRC REGION II
ATLANTA, GEORGIA
MAY 31 9:11

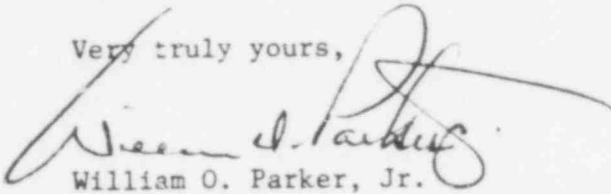
Mr. James P. O'Reilly, Director
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Re: RII:JPO
50-369
50-370

Dear Mr. O'Reilly:

With regard to your letter of April 14, 1979 which transmitted IE Bulletin 79-07, please find attached responses to the action items for McGuire Nuclear Station.

Very truly yours,


William O. Parker, Jr.

GJP:scs
Attachment

cc: NRC, Office of Inspection and Enforcement
Division of Reactor Operations Inspector
Washington, D. C. 20555

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DUKE POWER COMPANY
MCGUIRE NUCLEAR STATION

Response to IE Bulletin 79-07

With regard to items (1), (2) and (4), the following response is provided.

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

With the understanding that item (3) applies to all piping analysis and not just piping analysis using the algebraic summation methods, the verification of computer programs was done in a combination of ways. Due to the nonexistence 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 has used one 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, MF-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 Westinghouse Topical Report WCAP-8252.