

NAR PDR



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

DEC 0 1 1978

Docket Nos. 50-369
and 50-370

A

Mr. William O. Parker, Jr.
Vice President, Steam Production
Duke Power Company
P. O. Box 2178
422 South Church Street
Charlotte, North Carolina 28242

Dear Mr. Parker:

SUBJECT: LOCA/UHI ANALYSIS
(McGuire Nuclear Station, Units 1 and 2)

As a result of our review of Revision 34 to the McGuire FSAR, we find that some additional information is required to complete our review of the LOCA/UHI analysis for the McGuire Station. This information is described in the Enclosure.

Your prompt response to this request will permit us to complete our review of your application.

Sincerely,

Robert L. Baer

Robert L. Baer, Chief
Light Water Reactors
Branch No. 2
Division of Project Management

Enclosure:
Request for Additional
Information

ccs w/enclosure:
See page 2

7812110243

A

Mr. William O. Parker, Jr.
Vice President, Steam Production
Duke Power Company
P. O. Box 2178
422 South Church Street
Charlotte, North Carolina 28242

DEC 01 1978

cc: Mr. W. L. Porter
Duke Power Company
P. O. Box 2178
422 South Church Street
Charlotte, North Carolina 28242

Mr. R. S. Howard
Power Systems Division
Westinghouse Electric Corporation
P. O. Box 355
Pittsburgh, Pennsylvania 15230

Mr. E. J. Keith
EDS Nuclear Incorporated
220 Montgomery Street
San Francisco, California 94104

Mr. J. E. Houghtaling
NUS Corporation
2536 Countryside Boulevard
Clearwater, Florida 33515

Mr. Jesse L. Riley, President
The Carolina Environmental Study Group
354 Henley Place
Charlotte, North Carolina 28207

J. Michael McGarry, III, Esq.
Debevoise & Liberman
700 Shoreham Building
806 15th Street, N. W.
Washington, D. C. 20005

Shelley Blum, Esq.
418 Law Building
730 East Trade Street
Charlotte, North Carolina 28202

Mr. William O. Parker, Jr.

DEC 01 1978

cc: Robert M. Lazo, Esq., Chairman
Atomic Safety and Licensing Board
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dr. Emmeth A. Luebke
Atomic Safety and Licensing Board
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dr. Cadet H. Hand, Jr., Director
Bodega Marine Lab of California
P. O. Box 247
Bodega Bay, California 94923

ENCLOSURE

212-1

DEC 0 1 1978

212.0 REACTOR SYSTEMS BRANCH

212.110 Your response to 212.107 indicated that the LOCA/UHI analysis
(15.4) with the finite mixing model for a DECL with a 0.4 discharge
 coefficient results in a peak clad temperature of 2126⁰F
 which is only 20⁰F below the previously identified limiting
 break. This analysis was performed with a cold leg accumulator
 volume of 1050 ft³ instead of the new accumulator volumes
 presented in 212.105. The applicant must provide a reanalysis
 of the limiting break using the finite mixing model and correct
 cold leg accumulator input. As part of this analysis he should
 justify that he has identified the most limiting break for the
 finite mixing model analysis, that dynamic steam cooling
 (identified in WCAP-9220) will not result in a more limiting
 peak clad temperature calculation, and that the most conservative
 cold leg accumulator values have been used.