

September 6, 1995

Mr. M. S. Tuckman  
Senior Vice President  
Nuclear Generation  
Duke Power Company  
P. O. Box 1006  
Charlotte, NC 28201-1006

SUBJECT: SAFETY EVALUATION FOR TOPICAL REPORT DPC-NE-3004-P, "MASS AND ENERGY RELEASE AND CONTAINMENT RESPONSE METHODOLOGY" MCGUIRE NUCLEAR STATION, UNITS 1 AND 2; AND CATAWBA NUCLEAR STATION, UNITS 1 AND 2 (TAC NOS. M90646, M90647, AND M90648)

Dear Mr. Tuckman:

By letter dated September 30, 1994, Duke Power Company (DPC) submitted the subject topical report for review. The report describes the DPC methodology for simulating the mass and energy release from high energy line breaks in containment and the resulting long term containment response for the Catawba and McGuire Nuclear Stations. Supplemental information in response to our requests for additional information was submitted in a letter dated May 12, 1995. Additional clarifications were provided with respect to proprietary information in a submittal dated July 25, 1995.

The NRC staff has completed its review of the topical report and the supplemental submittals. The staff concludes that the DPC-NE-3004-P basic methodology may be used by DPC to perform future reanalyses in support of licensing applications related to containment accident responses. The staff's Safety Evaluation (SE) is enclosed. Proprietary information included in this SE was identified by your staff and documented by your letter dated July 25, 1995. The enclosure should be controlled and distribution limited to personnel with a "need to know." The enclosure is considered exempt from Public Disclosure in accordance with Title 10, Code of Federal Regulations, Part 2.790. However, a copy of this letter, with a non-proprietary version of the SE as an enclosure, will be placed in the NRC Public Document Room. This completes NRC actions for TAC Nos. M90646, M90647 and M90648.

Sincerely,

Original signed by:  
Robert E. Martin, Senior Project Manager  
Project Directorate II-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Docket Nos. 50-369, 50-370  
50-413 and 50-414

Enclosure:  
Safety Evaluation (Proprietary)

Document transmitted herewith contains sensitive unclassified information. When separated from enclosure, this document is decontrolled.

cc w/Non-Proprietary enclosure:  
See next page

**DISTRIBUTION:**

<b>w/Proprietary enclosure:</b>	<b>w/Non-Proprietary enclosure:</b>
Docket File W.Long	Docket File J.Zwolinski OGC, 0-15 B18
PDII-2 R/F V.Nerses	PUBLIC E.Merschhoff,RII ACRS (4)
R.Martin R.Crlenjack,RII	S.Varga

DOCUMENT NAME: G:\CATAWBA\CAT90646.SE OFFICIAL RECORD COPY

OFFICE	DRPE/PD22/LL	DRPE/PD22/PM	DRPE/PT22/D	
NAME	L.BERRY	R.MARTIN	H.BERKOW	
DATE	9/5/95	9/6/95	9/6/95	

9509120241 950906  
PDR ADOCK 05000369  
P PDR

NRC FILE CENTER COPY

DFPI  
OFFICE  
DPT

September 6 1995

Mr. M. S. Tuckman  
Senior Vice President  
Nuclear Generation  
Duke Power Company  
P. O. Box 1006  
Charlotte, NC 28201-1006

SUBJECT: SAFETY EVALUATION FOR TOPICAL REPORT DPC-NE-3004-P, "MASS AND ENERGY RELEASE AND CONTAINMENT RESPONSE METHODOLOGY" MCGUIRE NUCLEAR STATION, UNITS 1 AND 2; AND CATAWBA NUCLEAR STATION, UNITS 1 AND 2 (TAC NOS. M90646, M90647, AND M90648)

Dear Mr. Tuckman:

By letter dated September 30, 1994, Duke Power Company (DPC) submitted the subject topical report for review. The report describes the DPC methodology for simulating the mass and energy release from high energy line breaks in containment and the resulting long term containment response for the Catawba and McGuire Nuclear Stations. Supplemental information in response to our requests for additional information was submitted in a letter dated May 12, 1995. Additional clarifications were provided with respect to proprietary information in a submittal dated July 25, 1995.

The NRC staff has completed its review of the topical report and the supplemental submittals. The staff concludes that the DPC-NE-3004-P basic methodology may be used by DPC to perform future reanalyses in support of licensing applications related to containment accident responses. The staff's Safety Evaluation (SE) is enclosed. Proprietary information included in this SE was identified by your staff and documented by your letter dated July 25, 1995. The enclosure should be controlled and distribution limited to personnel with a "need to know." The enclosure is considered exempt from Public Disclosure in accordance with Title 10, Code of Federal Regulations, Part 2.790. However, a copy of this letter, with a non-proprietary version of the SE as an enclosure, will be placed in the NRC Public Document Room. This completes NRC actions for TAC Nos. M90646, M90647 and M90648.

Sincerely,

Original signed by:  
Robert E. Martin, Senior Project Manager  
Project Directorate II-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Docket Nos. 50-369, 50-370  
50-413 and 50-414

Enclosure:  
Safety Evaluation (Proprietary)

Document transmitted herewith contains sensitive unclassified information. When separated from enclosure, this document is decontrolled.

cc w/Non-Proprietary enclosure:  
See next page

**DISTRIBUTION:**

w/Proprietary enclosure:      w/Non-Proprietary enclosure:  
Docket File      W.Long      Docket File J.Zwolinski      OGC, 0-15 B18  
PDII-2 R/F      V.Nerses      PUBLIC      E.Merschhoff,RII      ACRS (4)  
R.Martin      R.Crlenjack,RII      S.Varga  
DOCUMENT NAME: G:\CATAWBA\CAT90646.SE      OFFICIAL RECORD COPY

OFFICE	DRPE/PD22/LL	DRPE/PD22/PM	DRPE/PD22/D	
NAME	L.BERRY	R.MARTIN	H.BERKOW	
DATE	9/5/95	9/6/95	9/6/95	



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

September 6, 1995

Mr. M. S. Tuckman  
Senior Vice President  
Nuclear Generation  
Duke Power Company  
P. O. Box 1006  
Charlotte, NC 28201-1006

SUBJECT: SAFETY EVALUATION FOR TOPICAL REPORT DPC-NE-3004-P, "MASS AND ENERGY RELEASE AND CONTAINMENT RESPONSE METHODOLOGY" MCGUIRE NUCLEAR STATION, UNITS 1 AND 2; AND CATAWBA NUCLEAR STATION, UNITS 1 AND 2 (TAC NOS. M90646, M90647, AND M90648)

Dear Mr. Tuckman:

By letter dated September 30, 1994, Duke Power Company (DPC) submitted the subject topical report for review. The report describes the DPC methodology for simulating the mass and energy release from high energy line breaks in containment and the resulting long-term containment response for the Catawba and McGuire Nuclear Stations. Supplemental information in response to our requests for additional information was submitted in a letter dated May 12, 1995. Additional clarifications were provided with respect to proprietary information in a submittal dated July 25, 1995.

The NRC staff has completed its review of the topical report and the supplemental submittals. The staff concludes that the DPC-NE-3004-P basic methodology may be used by DPC to perform future reanalyses in support of licensing applications related to containment accident responses. The staff's Safety Evaluation (SE) is enclosed. Proprietary information included in this SE was identified by your staff and documented by your letter dated July 25, 1995. The enclosure should be controlled and distribution limited to personnel with a "need to know." The enclosure is considered exempt from Public Disclosure in accordance with Title 10, Code of Federal Regulations, Part 2.790. However, a copy of this letter, with a non-proprietary version of the SE, will be placed in the NRC Public Document Room. This completes NRC actions for TAC Nos. M90646, M90647 and M90648.

Sincerely,

A handwritten signature in cursive script that reads "Robert E. Martin".

Robert E. Martin, Senior Project Manager  
Project Directorate II-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Docket Nos. 50-369, 50-370  
50-413 and 50-414

Enclosure:  
Safety Evaluation (Proprietary)

cc w/Non-Proprietary enclosure:  
See next page

Document transmitted herewith contains sensitive unclassified information. When separated from enclosure, this document is decontrolled.

Duke Power Company

McGuire Nuclear Station  
Catawba Nuclear Station

cc:

A. V. Carr, Esquire  
Duke Power Company  
422 South Church Street  
Charlotte, North Carolina 28242-0001

Mr. Dayne H. Brown, Director  
Department of Environmental,  
Health and Natural Resources  
Division of Radiation Protection  
P. O. Box 7  
Raleigh, North Carolina 27611-7687

County Manager of Mecklenburg County  
720 East Fourth Street  
Charlotte, North Carolina 28202

Mr. J. E. Snyder  
Regulatory Compliance Manager  
Duke Power Company  
McGuire Nuclear Site  
12700 Hagers Ferry Road  
Huntersville, North Carolina 28078

Ms. Karen E. Long  
Assistant Attorney General  
North Carolina Department of  
Justice  
P. O. Box 629  
Raleigh, North Carolina 27602

J. Michael McGarry, III, Esquire  
Winston and Strawn  
1400 L Street, NW.  
Washington, DC 20005

Mr. G. A. Copp  
Licensing - EC050  
Duke Power Company  
526 South Church Street  
Charlotte, North Carolina 28242-0001

Senior Resident Inspector  
c/o U. S. Nuclear Regulatory  
Commission  
12700 Hagers Ferry Road  
Huntersville, North Carolina 28078

Regional Administrator, Region II  
U.S. Nuclear Regulatory Commission  
101 Marietta Street, NW. Suite 2900  
Atlanta, Georgia 30323

Mr. T. Richard Puryear  
Nuclear Technical Services Manager  
Westinghouse Electric Corporation  
Carolinas District  
2709 Water Ridge Parkway, Suite 430  
Charlotte, North Carolina 28217

Elaine Wathen  
Lead REP Planner  
Division of Emergency Management  
116 West Jones Street  
Raleigh, North Carolina 27603-1335

Dr. John M. Barry  
Mecklenburg County  
Department of Environmental  
Protection  
700 N. Tryon Street  
Charlotte, North Carolina 28202

Duke Power Company

McGuire Nuclear Station  
Catawba Nuclear Station

cc:

Mr. Z. L. Taylor  
Regulatory Compliance Manager  
Duke Power Company  
4800 Concord Road  
York, South Carolina 29745

North Carolina Municipal Power  
Agency Number 1  
1427 Meadowwood Boulevard  
P. O. Box 29513  
Raleigh, North Carolina 27626-0513

County Manager of York County  
York County Courthouse  
York, South Carolina 29745

Richard P. Wilson, Esquire  
Assistant Attorney General  
South Carolina Attorney General's  
Office  
P. O. Box 11549  
Columbia, South Carolina 29211

Piedmont Municipal Power Agency  
121 Village Drive  
Greer, South Carolina 29651

Saluda River Electric  
P. O. Box 929  
Laurens, South Carolina 29360

Max Batavia, Chief  
Bureau of Radiological Health  
South Carolina Department of  
Health and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

North Carolina Electric Membership  
Corporation  
P. O. Box 27306  
Raleigh, North Carolina 27611

Senior Resident Inspector  
4830 Concord Road  
York, South Carolina 29745

Mr. William R. McCollum  
Site Vice President  
Catawba Nuclear Station  
Duke Power Company  
4800 Concord Road  
York, South Carolina 29745

Mr. T. C. McMeekin  
Vice President, McGuire Site  
Duke Power Company  
12700 Hagers Ferry Road  
Huntersville, North Carolina 28078