June 19, 2002

LICENSEE : Duke Energy Corporation

FACILITIES: McGuire, Units 1 and 2, and Catawba, Units 1 and 2

SUBJECT: TELECOMMUNICATION WITH DUKE ENERGY CORPORATION TO DISCUSS THE RESPONSE TO A REQUEST FOR ADDITIONAL INFORMATION PERTAINING TO SECTION 4.3 OF THE LICENSE RENEWAL APPLICATION

On January 28, 2002, the NRC staff (hereafter referred to as "the staff") issued a request for additional information (RAI) pertaining to Section 4.3, Metal Fatigue, of the license renewal application (LRA). Duke Energy Corporation (hereafter referred to as "the applicant") responded to this request by letter dated April 15, 2002. On June 4, 2002, a conference call was conducted between the NRC and Duke Energy Corporation to discuss information that was provided to the NRC in response to RAI 4.3-4, parts (2) and (3), and RAI 4.3-5. Participants of the June 4, 2002, conference call are provided in Attachment 1. A table that was provided by Duke, via electronic correspondence, in response to RAI 4.3-5 is provided in Attachment 2.

RAI 4.3-4(2) and (3)

The applicant questioned the reasoning behind the staff's RAI on a report (WCAP-14574) that was not used in or referenced by the McGuire-Catawba license renewal application. The staff explained that, although WCAP-14574 is not a part of the Duke application, the report documented safety issues related to the Westinghouse fatigue design. As such, the staff needs to compare cumulative usage factors (CUFs) specific to certain McGuire and Catawba components to data presented in the report to conclude, with reasonable assurance, that fatigue of these components will be adequately monitored during the extended period of operation.

The applicant acknowledged the reviewer's intent in requesting the CUFs for McGuire and Catawba components. The applicant expressed that it disagrees with the technical approach in the WCAP report. However, the staff indicated that it needs this information to compare plant-specific data to that which is provided in Table 2-10 of the WCAP. Such a comparison will enable the staff to conclude, with reasonable assurance, that the components should be able to continue to perform their intended functions during the period of extended operation. The applicant further explained that the Thermal Fatigue Management Program is credited in the LRA to ensure that all fatigue-related issues are managed for the period of extended operation, including environmentally assisted fatigue. The staff acknowledged that this program was defined in the LRA and credited by the applicant, but that a data comparison to the WCAP report was requested to provide additional assurance that the applicant's program will adequately address the issues identified in the WCAP report.

The applicant agreed to provide specific CUFs associated with the design of the pressurizer as requested by RAI 4.3-4(2). With respect to RAI 4.3-4(3), the pressurizer locations associated with these usage factors, as well as other component locations in the reactor coolant system, will be considered for environmentally assisted fatigue under the process described in the application Section 4.3.1.2.

RAI 4.3-5

By electronic correspondence dated May 23, 2002, the applicant provided a table of CUFs for newer-vintage Westinghouse plant locations identified in NUREG/CR-6260, "Application of NUREG/CR-5999 Interim Fatigue Curves to Selected Nuclear Power Plant Components." The staff reviewed these data and indicated that the information provided was sufficient to enable the staff to complete its review of this item. The applicant agreed to submit this information by official correspondence. This RAI is confirmatory pending the formal submittal of the information provided in the May 23, 2002, electronic correspondence.

A draft of this telecommunication summary was provided to the applicant to allow them the opportunity to comment prior to the summary being issued.

/***RA***/

Rani L. Franovich, Project Manager
License Renewal and Environmental Impacts Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

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

Attachments: As stated

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The applicant agreed to provide specific CUFs associated with the design of the pressurizer as requested by RAI 4.3-4(2). With respect to RAI 4.3-4(3), the pressurizer locations associated with these usage factors, as well as other component locations in the reactor coolant system, will be considered for environmentally assisted fatigue under the process described in the application Section 4.3.1.2.

RAI 4.3-5

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Rani L. Franovich, Project Manager
License Renewal and Environmental Impacts Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

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NAME	E Hylton	J Fair	R Franovich	S Lee
DATE	6/19/02	6/ 19 /02	6/19/02	6/19/02

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J. Moore
R. Weisman
M. Mayfield
A. Murphy
W. McDowell
S. Droggitis
S. Duraiswamy
RLEP Staff

R. Architzel
R. Martin
C. Patel
C. Julian (RII)
R. Haag (RII)
S. Uttal (OGC)
M. Khanna
H. Walker
J. Fair

Mr. Gary Gilbert
Regulatory Compliance Manager
Duke Energy Corporation
4800 Concord Road
York, South Carolina 29745

Ms. Lisa F. Vaughn
Duke Energy Corporation
422 South Church Street
Charlotte, North Carolina 28201-1006

Anne Cottingham, Esquire
Winston and Strawn
1400 L Street, NW
Washington, DC 20005

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

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

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

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

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

Mr. Robert L. Gill, Jr.
Duke Energy Corporation
Mail Stop EC-12R
P. O. Box 1006
Charlotte, North Carolina 28201-1006

Mr. Alan Nelson
Nuclear Energy Institute
1776 I Street, N.W., Suite 400
Washington, DC 20006-3708

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

Senior Resident Inspector
U.S. Nuclear Regulatory Commission
4830 Concord Road
York, South Carolina 29745

Mr. Henry J. Porter, Assistant Director
Division of Waste Management
Bureau of Land & Waste Management
S.C. Dept of Health and Environ. Control
2600 Bull Street
Columbia, South Carolina 29201-1708

Mr. C. Jeffrey Thomas
Manager - Nuclear Regulatory Licensing
Duke Energy Corporation
526 South Church Street
Charlotte, North Carolina 28201-1006

Mr. L. A. Keller
Duke Energy Corporation
526 South Church Street
Charlotte, North Carolina 28201-1006

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

Mr. Peter R. Harden, IV
VP-Customer Relations and Sales
Westinghouse Electric Company
6000 Fairview Road - 12th Floor
Charlotte, North Carolina 28210

Mr. T. Richard Puryear
Owners Group (NCEMC)
Duke Energy Corporation
4800 Concord Road
York, South Carolina 29745

Mr. Richard M. Fry, Director
North Carolina Dept of Env, Health, and
Natural Resources
3825 Barrett Drive
Raleigh, North Carolina 27609-7721

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

Michael T. Cash
Regulatory Compliance Manager

Duke Energy Corporation
McGuire Nuclear Site
12700 Hagers Ferry Road
Huntersville, North Carolina 28078

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

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

Mr. Gregory D. Robison
Duke Energy Corporation
Mail Stop EC-12R
526 S. Church Street
Charlotte, NC 28201-1006

Mary Olson
Nuclear Information & Resource Service
Southeast Office
P.O. Box 7586
Asheville, North Carolina 28802

Paul Gunter
Nuclear Information & Resource Service
1424 16th Street NW, Suite 404
Washington, DC 20036

Lou Zeller
Blue Ridge Environmental Defense League
P.O. Box 88
Glendale Springs, North Carolina 28629

Don Moniak
Blue Ridge Environmental Defense League
Aiken Office
P.O. Box 3487
Aiken, South Carolina 29802-3487

Mr. Kevin Cox
The Huntersville Star
P.O. Box 2542
Huntersville, NC 28070

TELECOMMUNICATION PARTICIPANTS
June 4, 2002

Staff Participants

Rani Franovich

John Fair

Duke Energy Corporation Participants

Greg Robison

Bob Gill

Mary Hazeltine

Mike Davis

Attachment 1

CUFs Newer Vintage Westinghouse Plant Locations Identified in NUREG/CR 6260

	McGuire 1	McGuire 2	Catawba 1	Catawba 2
RV at lower head to shell juncture	0.004	0.059	0.059	0.012
RV Inlet Nozzle	0.1068	0.1068	0.099	0.112
RV Outlet Nozzle	0.6576	0.6576	0.658	0.658
Surge Line Hot Leg Nozzle	0.276	0.276	0.276	0.276
Charging Nozzle	0.768	0.768	0.795	0.795
Safety Injection Nozzle	0.935	0.935	0.950	0.950
Residual Heat Removal Line Inlet Transition	0.0421	0.0421	0.44	0.044