

**From:** "Robert L Gill Jr" <rlgill@duke-energy.com>  
**To:** "Rani Franovich" <RLF2@nrc.gov>  
**Date:** 6/17/02 9:24AM  
**Subject:** Re: Conference Call Summary Metal Fatigue

Rani,  
Thanks for the opportunity to review the telecon summary. Here are comments

Page 1, 2nd paragraph, end of 4th line - "staffs" should be "staff"

Page 1, 3rd paragraph rewritten as follows [insert] (strikethrough: delete)

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, but agreed that [the staff needs this information to make] a comparison of plant-specific data to that which is provided in Table 2-10 of the WCAP (strikethrough: will enable the staff )to verify 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 is acceptable, but that a data comparison to the WCAP report was requested to provide additional assurance that the intended functions will be maintained.

Call if we need to discuss. Bob

"Rani  
Franovich" To: <rlgill@duke-energy.com>, "John Fair"  
<RLF2@nrc.gov <JRF@nrc.gov>  
> cc:  
bcc:  
06/14/2002 Subject: Conference Call Summary  
05:11 PM

John and Bob,  
Please review the attached and provide comments by COB June 19 (next Wednesday). Note that I need a couple of things (indicated in red text).  
Thanks-  
Rani

(See attached file: Conference Call Summary June 4 02 - Metal Fatigue  
RAIs.wpd)

**CC:** "J Michael Davis" <JMDavis0@duke-energy.com>, "Gregory D Robison"  
<gdrobiso@duke-energy.com>

1

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's 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, but agreed that a comparison of plant-specific data to that which is provided in Table 2-10 of the WCAP will enable the staff to verify 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 is acceptable, but that a data comparison to the WCAP report was requested to provide additional assurance that the intended functions will be maintained.

The applicant agreed to provide specific CUFs associated with the design of the pressurizer as

2

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, Need a Title, John. 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 both sets (does this mean the set for RAI 4.3-4 and the set for RAI 4.3-5?) of 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.

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

cc w/attachments: See next page

3

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

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

Attachments: As stated

cc w/attachments: See next page

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5

Division of Regulatory Improvement Programs  
COVER PAGE

DATE: June 14, 2002

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

ORIGINATOR: R. Franovich

SECRETARY: S. Chey

•••DRIP ROUTING LIST•••

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ADAMS ACCESSION NUMBER: **ML**

DATE ENTERED: / /02

FORM 665 ATTACHED and filled out: YES NO

6

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7

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8

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9

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**June 4, 2002**

**Staff Participants**

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John Fair

**Duke Energy Corporation Participants**

Greg Robison

Bob Gill

Mary Hazeltine

Mike Davis

10

Attachment 1

11

## 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

Attachment 2