February 11, 2000

MEMORANDUM TO: File Center

FROM: Jack N. Donohew, Senior Project Manager, Section 2
Project Directorate IV & Decommissioning
Division of Licensing Project Management /***RA/***
Office of Nuclear Reactor Regulation

SUBJECT: CLARIFICATION OF APPLICATION DATED MARCH 18, 1998 FOR FORT CALHOUN (TAC NO. MA1949)

The attached e-mail from Omaha Public Power District (OPPD), the licensee for Fort Calhoun, provides clarifying information on the reactor coolant system inventory controls, transfer functions, and functional instrument or control parameter that are listed in the proposed Technical Specification (TS) 2.15(4) in the licensee's application of March 18, 1998.

Docket No. 50-285

Attachment: E-mail dated February 4, 2000, from OPPD

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From: "MATTHEWS, THOMAS C" <tcmatthews@oppd.com>
To: "'Jack Donohew'" <JND@nrc.gov>
Date: Fri, Feb 4, 2000 1:13 PM
Subject: RE: Questions for Ft Calhoun 03/18/98 Amendment Request

Jack-

We have revised the previously transmitted answers (Answer #2 was expanded) to hopefully address your additional questions.

References: 1. Fort Calhoun Station LER 97-002
2. LIC 98-044, Application for Amendment of Operating License, from OPPD (W.G. Gates) to the U.S. Regulatory Commission (Document Control Desk), dated March 18, 1998
3. NUREG 1432, Standard Technical Specifications for Combustion Engineering Plants

Question 1: What are the Emergency Auxiliary Feedwater control circuits, and are they listed in the proposed Technical Specification 2.15(4)?

Response 1: The Emergency Auxiliary Feedwater control on the Auxiliary Feedwater Panel AI-179 consists of the following circuits:

* The Steam Generator RC-2A Auxiliary Feedwater Isolation Inboard and outboard Valves Controls, proposed Technical Specification 2.15(4) 7a. This control function includes the hand control switch for HCV-1107A (Auxiliary Feedwater to the Steam Generator RC-2A Inside-Containment Isolation Valve), the hand control switch for HCV-1107B (Auxiliary Feedwater to the Steam Generator RC-2A Outside-Containment Isolation Valve), and the controller for HCV-1107B.
* The Steam Generator RC-2B Auxiliary Feedwater Isolation Inboard and outboard Valves Controls, proposed Technical Specification 2.15(4) 7b. This control function includes the hand control switch for HCV-1108A (Auxiliary Feedwater to the Steam Generator RC-2B Inside-Containment Isolation Valve), the hand control switch for HCV-1108B (Auxiliary Feedwater to the Steam Generator RC-2B Outside-Containment Isolation Valve), and the controller for HCV-1108B.
* The Motor-Driven Auxiliary Feedwater Pump FW-6 Recirculation Valve Control, proposed Technical Specification 2.15(4) 7c. This control function includes the hand control switch for FCV-1368 (Auxiliary Feedwater Pump FW-6 Recirculation Control Valve).
* The Steam-Driven Auxiliary Feedwater Pump FW-10 Recirculation Valve Control, proposed Technical Specification 2.15(4) 7d. This control function includes the hand control switch for FCV-1369 (Auxiliary Feedwater Pump FW-10 Recirculation Control Valve).
* The Steam-Driven Auxiliary Feedwater Pump FW-10 Control, proposed Technical Specification 2.15(4) 7e. This control function includes the hand control switch for FW-10 (Auxiliary Feedwater Pump FW-10).

Attachment

* The Steam Generator RC-2A Steam to the Steam-Driven Feedwater Pump FW-10 Header A Isolation Valve, proposed Technical Specification 2.15(4) 7f. This control function includes the hand control switch for YCV-1045A.
* The Steam Generator RC-2B Steam to the Steam-Driven Feedwater Pump FW-10 Header B Isolation Valve, proposed Technical Specification 2.15(4) 7g. This control function includes the hand control switch for YCV-1045B.

Question 2: What are the Alternate Shutdown Panel control circuits, and are they listed in the proposed Technical Specification 2.15(4)?

Response 2: The Alternate Shutdown Panel AI-185 control circuits consist of the following functions:

* The Charging Pump CH-1B and its associated control, proposed Technical Specification 2.15(4) 5c. This control functions includes the hand control switches for HCV-239 (Charging to Reactor Coolant Loop 2A Isolation Valve) and CH-1B (Charging Pump 1B).
* The Charging to Reactor Coolant Loop 2A Isolation Valve HCV-239, proposed Technical Specification 2.15(4) 5d. This control function includes the hand control switch for HCV-239.
* All Transfer Switches and Lockout Relays, proposed Technical Specification 2.15(4) 6a. This control function includes the Remote/Local Transfer Switch, the A/C Train Transfer Lockout Relay 43A, the Black Train Transfer Lockout Relay 43B, the B/D Train Transfer Lockout Relay 43C, and the B/D Train Transfer Lockout Relay 43D.

The Charging Pump CH-1B and the Isolation Valve HCV-239 are not specifically addressed in the current Technical Specification 2.15(4) or 2.15(5). However, the Pressurizer Level instrumentation and control circuits are addressed in current Technical Specification 2.15(4) and the Pressurizer Pressure instrumentation and control circuits are addressed in current Technical Specification 2.15(5). The Charging Pump and the Isolation Valve are parts of these "control circuits." The addition of the Charging Pump and the Isolation valve to the proposed Technical Specifications 2.15(4) 5c and 2.15(4) 5d is to better define the function of the Pressurizer Level and Pressurizer Pressure and does not constitute additional requirements to Technical Specifications.

In addition, the Alternate Shutdown Panel AI-185 transfer switches and lockout relays are addressed in the proposed Technical Specification 2.15(4) 6a. The Auxiliary Feedwater Controls Transfer Switch 43/RC-2B and the Auxiliary Feedwater Controls Transfer Lockout Relay 43X/RC-2B are addressed in the proposed Technical Specification 2.15(4) 6b.

The transfer functions are not specifically addressed in current Technical Specifications 2.15(4) and 2.15(5). However, all control functions located on panels AI-179 and AI-185 require transferring from the Control Room to the local location. The addition of the transfer functions to the proposed Technical Specification 2.15(4) 6a and 2.15(4) 6b is to better define the functions of the alternate shutdown

capability, and does not constitute additional requirements to Technical Specifications.

Question 3: Why are the required number of channels always "1" in the proposed Technical Specification 2.15.4?

Response 3: There is one channel installed for every control function in the Alternate Shutdown Panel AI-185 and the Emergency Auxiliary Feedwater Panel AI-179.

Question 4: Do the current Technical Specifications list only the indication instrumentation and do not include the control circuits?

Response 4: The current Technical Specification 2.15(4) requires that "In the event that any of the following Alternate Shutdown Panel instrumentation or control circuits become inoperable, either restore the inoperable component(s) to operable status within seven days, or be in hot shutdown within the next twelve hours."

Section 2.15(5) requires that "In the event that any of the following Emergency Auxiliary Feedwater Panel instrumentation or control circuits become inoperable, either restore the inoperable component(s) to operable status within seven days, or be in hot shutdown within the next twelve hours."

The proposed Technical Specification 2.15(4) combines the two current Technical Specifications 2.15(4) and 2.15(5). The proposed change maintains the requirements for operability of the control circuits.

Question 5: Is any requirement of any kind being removed from the Technical Specifications, any requirements being deleted, in combining the Technical Specifications 2.15(4) and 2.15(5).

Response 5: No requirements of any kind are being removed from the current Technical Specifications 2.15(4) and 2.15(5).

Current Technical Specifications 2.15(4) and 2.15(5) specify requirements for the Alternate Shutdown Panel Instrumentation (AI-212 and AI-185) and the Emergency Auxiliary Feedwater Panel Instrumentation (AI-179). The functions are listed by panel location.

The proposed combined Technical Specification 2.15(4) specifies requirements for the Alternate Shutdown Panel Instrumentation (AI-212 and AI-185) and the Emergency Auxiliary Feedwater Panel Instrumentation (AI-179). The control functions are listed and grouped by their appropriate functions. This is consistent with the format provided by the NUREG 1432 containing the improved Technical Specifications for Combustion Engineering Plants.

> -----Original Message-----

> From: Jack Donohew [SMTP:JND@nrc.gov]
> Sent: Thursday, February 03, 2000 11:02 AM
> To: tcmatthews@oppd.com
> Cc: LRW@nrc.gov
> Subject: RE: Questions for Ft Calhoun 03/18/98 Amendment Request
>
> I have reviewed the email dated 2/2/2000 where you provided the responses
> to my 5 questions. I have one clarifying question to ask you:
>
> In the response to questions 1 and 2, you specified the control circuits
> for the two panels and identified the number where the circuits appear in
> the proposed TS 2.15(4) (i.e., the steam generator RC-2A auxiliary
> feedwater isolation inboard and outboard valves controls is proposed TS
> 2.15(4) number 7a). I have cross referenced the items (e.g., 7a) listed
> in proposed TS 2.15(4) with (1) the control circuits in your response to
> questions 1 and 2 and (2) the instrumentation in the current TS 2.15(4)
> and 2.15(5). Numbers 5d and 6b appear to be the only items in the
> proposed TS that are not listed in the current TS 2.15(4) and (5), or the
> response to questions 1 and 2.
> Items 5d and 6b are the charging isolation valve control on panel AI-185
> and all transfer switches/lockout relays on panel AI-179. I believe that
> items 5d and 6b are control circuits on either the ASD and EAFW panels,
> respectively, but you did not list them in the response to questions 1 and
> 2. What panel are these items on, and are you adding requirements to the
> TSs by adding these two items to proposed TS 2.15(4)?
> <JND>
>
>

CC: OWFN_DO.owf4_po(LRW)