Karl Feintuch

To: Lois James
Cc: Jack Cushing
Subject: First Duane Arnold application under LIC-109
Attachments: For Info Only - synopsis.doc

I received a call from Laura this afternoon regarding the amendment application that was expected on May 28, 2008 (discussed in our Branch meeting). Attached is a synopsis of the planned application.

The amendment application is now expected to be signed on **May 22 or 23, 2008**. I will receive a signed copy by email at that time. Duane Arnold sends its correspondence by US Mail to the Document Control Desk, which makes the ADAMS availability date less predictable.

The cognizant Tech Branch appears to be EEEB (see attached). I will begin coordination efforts with both the licensee and Tech Branch Chief(s) based on this information.

Karl

From: Laura Swenzinski [mailto:Laura_Swenzinski@fpl.com]
Sent: Monday, May 19, 2008 11:28 AM
To: Karl Feintuch
Cc: Steve_Catron@fpl.com
Subject: Synopsis of Upcoming TSCR

Karl,
Per our telephone conversation, you requested a short synopsis of the upcoming Tech Spec Change Request that DAEC plans to submit within the next week to 10 days. This synopsis is for information only since the TSCR is currently in the DAEC review phase and has not received all DAEC approvals. Please let me know if you have any questions,
V/R
Laura Swenzinski
Licensing
319-851-7724
(See attached file: For Info Only - synopsis.doc)

The existing requirement, as specified in TS Table 3.3.8.1, requires an allowable voltage range of ≥ 3780V and ≤ 3899V for the 4160 volt Emergency Bus Undervoltage relays. Marked up TS page 3.3-75 follows, page has been enlarged for legibility.

Recent revisions to the setpoint calculation for the 4160 volt Emergency Bus Undervoltage relays have resulted in a maximum allowable voltage level closer to the actual setpoint voltage limit. The revised calculation supports a maximum allowable voltage of ≤ 3822V for the 4160 volt Emergency Bus Undervoltage relays versus the existing requirement of ≤ 3899V. As such, the current TS maximum allowable relay setpoint value is above that needed to ensure operability of the offsite sources. FPL Energy Duane Arnold, LLC (FPL Energy Duane Arnold) has performed surveillance on the 4160 volt Emergency Bus Undervoltage relays to ensure the allowed voltage falls within the newly calculated values of ≥ 3780V and ≤ 3822V. FPL Energy Duane Arnold has established administrative controls to ensure that the newly calculated maximum allowable value of ≤ 3822V for the 4160 volt Emergency Bus Undervoltage relays is not exceeded.

The DAEC used the GE Setpoint Methodology, to determine the revised maximum allowable voltage value for the 4160 volt Emergency Bus Undervoltage relays. This methodology was approved by the NRC in a safety evaluation report dated November 6, 1995. The minimum allowable voltage value and the time delay allowable values for the 4160 volt Emergency Bus Undervoltage relays are unchanged. The frequency of surveillances on the 4160 volt Emergency Bus Undervoltage relays is unchanged.

The proposed change to the maximum allowable voltage for the 4160 volt Emergency Bus Undervoltage relays was reviewed against the draft TSTF-493, Reference 3. Offsite AC power is not a safety limit for Duane Arnold Energy Center. The allowable voltage for the 4160 volt Emergency Bus Undervoltage relays does not constitute a Limiting Safety System Setting (LSSS), therefore, TSTF-493 is not applicable.

In accordance with commitments made in response to Generic Letter 2006-02, the TS Limiting Condition for Operation for inoperable offsite circuits is entered whenever the grid operator determines that offsite power grid conditions are such that a trip of the DAEC turbine/generator would lead directly to voltages in the DAEC switchyard below the trip setpoints for Loss of Power Instrumentation. This commitment is unchanged by the proposed TS change.

Table 3.3.8.1-1 (page 1 of 1)
Loss of Power Instrumentation

FUNCTION	REQUIRED CHANNELS PER BUS	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE
1. 4.16 kV Emergency Bus Undervoltage (Loss of Voltage)			
a. Bus Undervoltage	1	SR 3.3.8.1.2 SR 3.3.8.1.4 SR 3.3.8.1.5	≥ 595 V and ≤ 2275 V
2. 4.16 kV Emergency Bus Undervoltage (Degraded Voltage)			
a. Bus Undervoltage	4	SR 3.3.8.1.1 SR 3.3.8.1.3 SR 3.3.8.1.5	≥ 3780 V and ≤ ~~3850~~ 3822 V
b. Time Delay	4	SR 3.3.8.1.1 SR 3.3.8.1.3 SR 3.3.8.1.5	≥ 7.92 seconds and ≤ 8.5 seconds
3. 4.16 kV Emergency Transformer Supply Undervoltage	2	SR 3.3.8.1.2 SR 3.3.8.1.3 SR 3.3.8.1.5	≥ 2450 V

TSCR-106
~~Amendment 223~~