

12

From: Stephen Alexander
To: David Decker; Karen Cotton; Lauren Quinones; Michael Ernstes; Scott Shaeffer; Tim McGinty
Date: 09/18/2007 3:10:34 PM
Subject: Re: Farley AITNRC slides.ppt

Your history slide reads as follows:

On September 4, 2007

After a planned maintenance on the 1B component cooling water (CCW) pump, the licensee encountered a problem when testing the functional relationship between the Unit 1 1B CCW pump and the 1C CCW pump on the 'F' ESF bus (Train 'A').

The Cutler-Hammer breaker failed to close when the licensee attempted to manually start the 1C CCW pump from the control room

On September 5, 2007

The 1A CCW pump Allis-Chalmers breaker failed to close when manually started from the control room when the licensee tested the functionality of the 1B CCW pump and the 1A CCW pump on the 'G' ESF bus (Train 'B').

I recommend the following wording to make it clearer for laymen: (Mike Ernstes, please do a reality check on this to make sure I have accurately stated the facts. Thanks)

On September 4, 2007, while the Farley Nuclear Plant Unit 1's No. "1B" component cooling water (CCW) pump, one of the three pumps in Unit 1's CCW system, was out of service for planned maintenance, licensee personnel prepared to start the "1C" CCW pump in support of the maintenance activity. The 1B pump happens to be a so-called "swing pump" as it can be aligned to either one of the two "trains" or duplicate parts of the CCW system.

During routine pre-startup checks for the 1C CCW pump being performed by a plant system operator at the circuit breaker that provides electric power for the 1C CCW pump motor, the operator encountered what he believed to be an abnormal condition. Accordingly, the operator discontinued performance of the pre-startup check procedure and reported the anomaly to the control room. A plant electrician and the cognizant system engineer were summoned to the scene. They assessed the situation and determined that it was appropriate to attempt to start the 1C CCW pump.

Upon attempting to start the 1C pump normally from the control room, the circuit breaker started its closing sequence, but failed to close. Upon the failure of the breaker to close on demand, the system engineer, in consultation with shift management in the control room, commenced trouble-shooting procedures on the breaker. This breaker was a recently installed breaker made by Eaton/Cutler-Hammer designed to replace the plant's original breakers of this type made by Allis-Chalmers, but using new vacuum type interrupting elements.

A short time later, now September 5, 2007, in order to ensure that at least one CCW pump was available, licensee personnel proceeded to start the plant's remaining CCW pump, No. 1A. Pre-startup checks were completed satisfactorily on this pump as usual, but upon attempting to start this pump, again, normally from the control room, it too started its closing sequence, but failed to close. This breaker was one of the plant's original Allis-Chalmers breakers. Troubleshooting procedures were commenced on this breaker as well.

Meanwhile, licensee personnel, replaced the circuit breaker for the 1C pump with one of the Allis-Chalmers breakers from another cubicle that was not needed at the time. A cubicle is a metal cabinet that houses circuit breakers and in which they are connected to the electrical distribution system. With this breaker installed, the 1C pump was successfully started. Also, shortly thereafter, the maintenance was completed on the 1B pump and it was restored to service and tested satisfactorily.

B-12

Again, Mike, please check me on the sequence of events.

I can summarize more of the story if you like on a slide or just talk about it. Then I can write a little about what the licensee's probable causes were etc. Ultimately, if looks OK to everyone, I would be happy to edit the slides and send them back to Karen. What's your pleasure?

>>> Karen Cotton 09/18/2007 1:48 PM >>>
Please provide comments by COB.

Thanks,

Karen

CC: Mike Franovich; Robert Martin