

NRR-DMPSPEm Resource

From: Lee, Samson
Sent: Wednesday, October 10, 2018 11:51 AM
To: Wells, Russell Douglas
Cc: Hon, Andrew
Subject: additional information needs identified during audit - Sequoyah Nuclear Plant, Units 1 and 2, Request to Modify Essential Raw Cooling Water Motor Control Center Breakers and to Revise Updated Final Analysis Report (SQN-TS-17-04) (EPID: L-2018-LLA-0060)

Mr. Wells,

The NRC staff is continuing the regulatory audit for the subject Sequoyah license amendment request. Below is additional information need identified in the electrical engineering area.

Talking Point 5

Explain how the licensee will meet its design basis licensing criteria under the following scenario:

An operator working on ERCW MCCs 1A and 2A (train A) leaves them inadvertently connected when fed from offsite power. Nothing abnormal is detected/alarmed, since offsite circuits/power to both 6.9 kV shutdown boards 1A and 2A are in synch (no failure – the operator error is undetected). At a later time, one of the components/system on 1B or 2B (train B) becomes inoperable (say EDG 1B or 2B - single failure); LOOP/LOCA occurs and all four EDGs start. Since 6.9 kV shutdown boards 1A and 2A were previously inadvertently connected through ERCW MCCs 1A and 2A, the EDGs 1A and 2A try to connect to 6.9 kV shutdown boards 1A and 2A respectively - but may get connected in out-of-phase condition (through connection of ERCW MCCs 1A and 2A, previously undetected). Both EDGs (1A and 2A) may trip due to electrical/mechanical transients likely to happen under out-of-phase condition. Only one EDG on train B remaining – not adequate to meet the LOOP/LOCA conditions.

Please propose logistics to facilitate the audit.

Thanks,
Sam

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