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Cooper Nuclear Station TI 2515/194 Revision One Inspection Documentation Request

Inspection Dates: April 26 - 30, 2021 (Subject to Change)
Inspector: Jim Drake

Please provide the following additional documentation (Items 1 – 9) to the inspector prior to the onsite inspection date, preferably no later than April 12, 2021. The information should be provided in electronic format or a secure document management service. Please provide an index of the requested documents which includes a brief description of the document and the numerical heading associated with the request (i.e., where it can be found in the list of documents requested).

Jim Drake, Inspector
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1. Copies of your licensing basis changes to Updated Final Safety Analysis Report (UFSAR) which discuss the design features and analyses related to the effects of, and protection for, any open phase condition design vulnerability. If these documents have not been updated, provide documentation of your plans to do so.
2. Copies of any site training the inspector will need to accomplish in order to gain access to areas with, or planned, major electrical equipment used in your OPC solution (i.e. switchyard, control room, simulator).
3. Copies of your latest PRA Evaluation for CNS Plant Response to an Open Phase Condition.
4. Copies of any self-assessment that have been performed for the OPC.
5. Copies of any condition that were generated during the first TI inspection.

Please provide the following documentation to the inspector once onsite. Whenever practical, please provide copies electronically, except for drawings. Drawings should be provided as paper copies of sufficient size (ANSI "C" or "D") such that all details are legible.

4. A brief presentation describing your electric power system design and typical electrical transmission and distribution system alignments; OPC design schemes installed to detect, alarm and actuate (if applicable); bus transfer schemes; and maintenance and surveillance requirements. This presentation should be a general overview of your system. Please schedule the overview shortly after the entrance meeting.
5. Plant layout and equipment drawings for areas that identify: (a) the physical plant locations of major electrical equipment used in your open phase condition solution and procedures; (b) the locations of detection and indication equipment used in the open phase condition sensing circuits.
6. Summary and discussion about the plant PRA model for an OPC. Include your Human Reliability Analysis (HRA). Please discuss any sensitivity analyses performed, and the results. Also, discuss any assumptions made which bound the sensitivity analysis.

Please set up the follow evolutions/access for the inspector when onsite:

7. Access to locations in which open phase condition equipment is installed or planned (i.e. switchyard, etc.)
8. An operator walkthrough of your OPC alarm response procedures. Include any control room operator actions (use of the simulator is the preferred method)
9. A discussion of the timeline and consequences of an extended duration unbalanced voltage condition and how it may affect electric equipment, if OPC is not automatically isolated