

Marty comments on AC Station Service:

In section, AC Station Service; Specification for AC Station Service, paragraph 3 it states the following:

3. Main distribution panels located on the load side of the fused safety disconnect switch shall have breakers rather than fuses. All devices shall be designed to coordinate with each other to ensure proper protection.

Ameren uses current limiting fuses on the low side of the main station service transformer and are installing distribution breakers elsewhere in the substation. This current limiting fuse lowers the arc flash level to a lower level. However there is a possibility of not coordinating. Below is my revised wording.

3. Main distribution panels located on the load side of the fused safety disconnect switch shall have breakers rather than fuses. All devices shall be designed to coordinate with each other to ensure proper protection **except in some cases when applying current limiting fuses on the low side of the station service transformer to reduce arc flash levels from unsafe or class 4 to a class 2 or lower rating, miss-coordination between the fuses and breaker may exist in a portion of the time vs current curves. This miss-coordination should be minimized where possible.**