



RFQ MS 07-14-07 Communication October 9th, 2014

The following questions were submitted by potential bidders as of October 9th, 2014. No questions will be answered after 3:00 p.m., Wednesday, October 22, 2014.

Question No. 1.

I see that they are asking for the 451, as well as showing CT's on all 4 ways of the models 10 and 11 switches. The 451 only has 6 total current inputs on it, and 6 total voltage inputs. As they are also stating that they are looking for voltage transfer capability. In order to do that reliably, they would need voltage sensing on each bushing.

That being said, on the model 10, there could potentially be up to 12 required voltage sensing inputs, and 12 current sensing inputs. (talking with SEL, we may be able to get down to 4 total current inputs on the 10 and 6 on the 11, but that does not get around the voltage inputs that would be required to do what they are implying on page 21 TS-8.2.A.2)

If they will need 12 and 12, then we will likely need to include 2 relays on this switch. Very possible to do, I just need to understand the application better.

AMP answer:

AMP has specified 4 CT's and 1 PT for 3-way and 4-way switches per drawing 1-L-435. SEL 451 has 6 current inputs for 2 CT's and 6 voltage inputs for 2 PT's. Only 2 CT's and 1-PT will be used in conjunction with SEL 451 (1-CT for the VFI and 1- CT for other source for 3-way switch), while the rest of the CT's will be used as an option which sources needs to be monitored by the relay. Meaning, AMP has more flexibility which CT's will be used for monitoring the loads.

AMP will waive/eliminate the requirement for voltage transfer capability in Section TS 8.2.A.2 since AMP has determined that is option not necessary. AMP has issued an addendum.

Question No. 2

Then on to the application.

How are these switches to behave in the various conditions? In other words, what are the schemes to entail? Is there a truth table that we can have a look at, or a narrative of the sequence of events that they are looking for?

I see they have motors specified as well, so there would have to be some sort of automation required for this, we just need to know how they want this equipment to behave.

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AMP answer:

AMP has no prepared plans for distribution automation at this time but for the very least the new switches/relay are either automation ready or configurable. However, we may integrate the relays into our SCADA system for remote control and monitoring of 3 way and 4 -way switches.

The relay should be able to capture events files and provide SER/SOE to analyze any change of state of relay logic.

This is to inform all bidders that there is a change to Specification MS 07-14-07. This change eliminates the requirement of Section TS-8.2.A.2 which states, " Voltage Transfer Capacity: The relay shall be able to change protection voltage source upon detection of loss of potential (LOP). Voltage shall be capable of changing to a second source connected to the relay." Please delete Section TS-8.2.A.2.

Due to this change the bid date has been extended to Thursday October 30th @ 3:00 P.M.