

Comments on NECA 402-20XX, Standard for Installing and Maintaining Motor Control Centers

E: editorial, G: General, T: Technical Note: **Please do not re-size table**

ID: Company with comment # (do not automate comment #)

Page	Line	Clause	E/G	Organization	Comment (rationale)	Proposed change (specific; add, delete. From-to)	Resolution (SME ONLY)
7	273	3.1	G	ABC	Would be best to state somewhere up front in the document which edition of the NEC is being referenced. IEEE working groups have been stating generally all references to the NEC should be assumed to be the latest edition unless otherwise indicated. Only for Section numbers, Exceptions or informational notes we include the edition referenced. Logic being Chapters and Articles aren't as likely to change every 3 years as Section numbers are.	Add text in 3.1 to indicate which edition of the NEC is being referenced by this revision of the document. If this direction is followed, additional edits will be required throughout the document.	Accepted. The recommendation to include the version of NFPA 70 was included in Section 1.2.
13	538	6.0	G	ABC	Use of acronyms should be consistent. Generally, the acronym is established with the first use of the entire phrase or name, then acronym is used the remainder of the document	Revise entire document for consistent use of acronyms.	Accepted.
24	1002	7.4	T	ABC	"Check fuses for NEC compliance." Is too vague.	Delete "fuses" and replace with "fuse current ratings"	Accepted.
21	865	7.0	G	ABC	Much of this section is already found in NETA testing procedures. NETA is referenced further down.	Consider reducing the content of this section and reference NETA testing documents instead.	Comment is acknowledged.
26	1078	8.1	G	ABC	One instance we see in nearly every LV MCC in plants are Main-Tie-Mains with and without interlocked Tie breakers. Just a suggestion of a "nice to have" if you folks think it would add value for the workers. Multiple voltage sources were addressed earlier within the context of controls, and small power, etc., I didn't get the impression it was referring to double ended MCCs.	Consider adding information about Main-Tie-Mains or double-ended MCCs. Power should be verified as de-energized before working on the MCC, and there is not a closed Tie breaker from another power source.	Accepted.

Please think twice about printing this matrix. You can e-mail it, along with your ballot to neis@necanet.org or aga.golriz@necanet.org

Comments on NECA 402-20XX, Standard for Installing and Maintaining Motor Control Centers

E: editorial, G: General, T: Technical Note: **Please do not re-size table**

ID: Company with comment # (do not automate comment #)

27	1125	8.2	T	ABC	Three phase NEMA motors are wired to turn counterclockwise, looking at the fan end when connected A-B-C, L1-L2-L3 phase, when the branch circuit is a counterclockwise rotation A-B-C. Much time savings can be realized if the MCC is phased A-B-C counterclockwise and the motors connected appropriately. That said, some motors need to rotate clockwise depending on the load. But the message is, motor rotation shouldn't be a guess.	Add information about standard three phase motor rotation.	Accepted.
27	1150	8.2	T	ABC	This isn't just an issue of the breaker, but all terminations need to be checked for current ratings as well. This isn't something all EEs are good at checking when specifying the MCC. Having the electrician's eyes cross checking never hurts.	Add information if termination appears to be discolored, verify termination temperature rating is correct.	Accepted.
27		8.2	T	ABC	I suggest adding an item to verify all incoming cable insulations in wireways are either rated for 600V, or separation required by Art. 300, 725, 727 and Chapter 8 have been complied with. Odds are if it hasn't been maintained by the right people, control and/or communication cables with $\leq 300V$ were added over a period of time and these articles violated.	Add information to verify cable separation due to voltages are still in compliance with NEC Art. 300, 725 and 727. Could also be applicable to Chapter 8 cables.	Accepted.
36	1623 through 1646	9.4.9	G	ABC	Not a maintenance issue.	Delete all these recommendations.	Accepted.
37	1655	9.4.10	T	ABC	Not a good idea to suggest pitting is a problem and the contacts replaced. Electricians should know better, but some don't that contacts will be pitted with normal use and should not be filed. And, replacement is not necessary unless they're damaged or splattered.	Delete reference to pitting or at least clarify with changing text to "unusual pitting"	Accepted.

Please think twice about printing this matrix. You can e-mail it, along with your ballot to neis@necanet.org or aga.golriz@necanet.org

Comments on NECA 402-20XX, Standard for Installing and Maintaining Motor Control Centers

E: editorial, G: General, T: Technical Note: **Please do not re-size table**

ID: Company with comment # (do not automate comment #)
