



## Electric Motor Testing Tip of the Week

revolutionizing *electrical* reliability

May 7, 2007

### Saving Time Using the DC Spanned Bar Test Method

The MCE unit can be set up to perform either bar-to-bar testing or an alternate method may be used to test a "span of bars." When using the spanned bars method, it is important to note the acceptable deviation between individual spans is much less than when using the bar-to-bar method. Where a deviation of 5% between bar-to-bar values is generally acceptable, a deviation of just 1% in spanned bar tests compared to the other test samples might indicate a problem in the armature. When an unacceptable deviation is realized using the spanned bars test method, bar-to-bar testing on the suspect span should be performed to isolate the bar or bars where the suspect condition exists.

For more details go to:

[http://www.pdma.com/PDF/CaseStudies/CASE\\_STUDY\\_DC\\_Commutator\\_Testing\\_Richard\\_Love.pdf](http://www.pdma.com/PDF/CaseStudies/CASE_STUDY_DC_Commutator_Testing_Richard_Love.pdf)

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You are invited to submit an Electric Motor Testing Tip of your own and receive a free PdMA mug or hat if we publish it! Contact Lou at 813-621-6463 ext. 126 or [lou@pdma.com](mailto:lou@pdma.com).

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