

December 10, 2012

More Training, Better Results

From the PdMA Intro to MCEMAX Training Manual we find that during a Rotor Influence Check (RIC) test if the rotor's residual magnetic field produces a RIC test graph that is sinusoidal in shape, the rotor is referred to as a Rotor With Influence. If the sinusoidal shape is smooth with a consistent amplitude between phases it is given a normal status. If the inductance values have little change as the rotor is positioned it produces a flat graph and hence is referred to as a Low Influence Rotor (LIR). A Low Influence Rotor on a baseline test does not indicate a bad rotor. Instead it commonly indicates a higher quality rotor possibly designed with lower retentive steel, copper bars, or no rotor defects. With or without influence, base-lining a RIC test as soon as possible and being educated on the effects of rotor reflected impedance is critical.

Having a well trained staff will improve test data quality, ensure proper analysis, and increase the benefit of the motor testing program overall. In the end, more training equals better results.

NOTE: Due to the holiday season, this will be our last Motor Testing Tip of the year. We will resume after the New Year. Everyone at PdMA wishes you a Happy Holiday and a Safe and Prosperous New Year.

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.