

## **MCS and Test Stand Test Plan:**

MCS and Test Stand Verification - This test will verify correct operation of motor while connected to a dynamometer on a test bench. It will verify the motor, motor controller and dynamometer are all functional.

### Preconditions:

- Motor and dynamometer are each securely mounted to test bench. Motor and dynamometer are connected (if test requires dynamometer).
- Motor is connected to motor controller, which is plugged into a power supply.
- Area is prepared for safe operation of motor - all loose items are out of 15 safety area.
- Expected results from test are read aloud including maximum expectations for RPMs and Torque so everyone knows when safe conditions have been exceeded.

### Test Procedure:

- Turn on power supply to motor controller.
- Set-up any necessary configuration parameters on motor controller.
- Apply acceleration signal to motor and observe motor turning.
- Read data from display of dynamometer for more details.
- Turn off power supply and unhook from motor controller.