

DATE: 4/30/15

Operator: Stephen Mazich

The equipment used for this test was the Motor Control System(MCS) and a HP multimeter. The goal of the test was to measure the accuracy of voltage and the RPM at various loads. The VSCADA software was used for this test. The corresponding calibration factors can be found in their respective documents.

Motor Velocity Test in RPM

Percent Throttle	MC	Encoder	Handheld
10	456	~	453.9
20	1097	1115	1093
30	1910	1950	1916
40			
50			
60			
70			
80			
90			

Motor Current

Controller Input Voltage

		Voltage			Current		
		Low Load (50)	Med Load (25)	High Load (10)	Low Load (50)	Med Load (25)	High Load (10)
Power Supply	10%	89.6	89.6	89.6	3.9	3.2	2.3
HP	10%	89.5	89.50	89.50			
Curtis	10%	89.8	89.8	89.8			
Power Supply	20%	89.6	89.6	89.6	17.3	11.8	7.0
HP	20%	89.42	89.46	89.49			
Curtis	20%	89.7	89.7	89.7			
Power Supply	30%	89.6	89.6	89.6	76.2	24.7	13.8
HP	30%	89.17	89.39	89.44			
Curtis	30%	89.4	89.5	89.7			
Power Supply	40%						
HP	40%						
Curtis	40%						
Power	50%						

Supply							
HP	50%						
Curtis	50%						

Load Variance