MLC Predictive Maintenance Using Statistical Process Control Analysis

Figure 1. Individual and moving range (I/MR) chart of MLC leaf B32 velocity. MLC motor failed on Feb 7, 2011. Red data points after Feb 7 would be used to create a new baseline. There was no indication of impending failure (data points exceeding the limits) prior to motor replacement. The graph prior to Feb 7th is indicative of I/MR charts for leaves in which no motor was replaced.

Figure 2. Individual and moving range (I/MR) chart of MLC leaf A56 velocity. MLC motor failed on May 13, 2011. A series of points exceeding the limits starting on March 2 is an indication of gradual decline in MLC speed prior to motor failure. Red data points after May 13th would be used to create a new baseline.