Instructions for Baseline MLE Software

- Save the baselineMLEresults.m file to your directory.

- Import your data into your MATLAB session. The data must be entered as a column with with individual datapoints on separate lines. Note that separate columns of data are required for the data from the Stand Plan component, and the baseline data.Arrange the standard plan data first by part, then by operator, and then by replicate measurements by the given operator on the given part. Arrange the baseline data in the same manner.

- To call the function from your command window, type the following and press enter. The results will automatically be displayed.

  ```
  [res]=baselineMLEresults(k,m,n,b,model,SPdata,BASEdata);
  ```

- The inputs for this function are as follows:
  - `k` is the number of parts measured in the SP component of the study
  - `m` is the number of operators used in the study
  - `n` is the number of replicate measurements made in the SP component of the study
  - `b` is the number of baseline measurements made
  - `model = 0` if you do not wish to estimate a part-by-operator interaction and `model = 1` if you do
  - `SPdata` is the data collected during the SP component of the study (arranged as described above)
  - `BASEdata` is the baseline data collected (arranged as described above)

Instructions for Assess Plan Software

- Save the assessplan.m file to your directory.

- To call the function from your command window, type the following and press enter. The results will automatically be displayed.

  ```
  [res]=assessplan(k,m,n,b,sp2,so2,sd2,sm2);
  ```

- The inputs for this function are as follows:
  - `k` is the number of parts you plan to measure in the SP component of the study
  - `m` is the number of operators you plan to use in the study
  - `n` is the number of replicate measurements you plan to make in the SP component of the study
  - `b` is the number of baseline measurements you plan to make
  - `sp2` is your estimate of the part-to-part variability
  - `so2` is your estimate of the operator-to-operator variability
  - `sd2` is your estimate of the part-by-operator interaction
  - `sm2` is your estimate of the measurement variation