



## **Statistical Analysis Program for Generating Material Allowables**

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### **ABSTRACT**

A computer program to conduct statistical analyses and generate tolerance values per the CMH-17 guidelines has been assembled. The computer program is written using Visual Basic language and has an Excel spreadsheet based user interface. The program combines the features of the pooling and single point methods to generate the material allowables/tolerance factors per the CMH-17 guidelines. The program also allows the user to discriminate the data for presence of outliers, between-batch variability, appropriateness of statistical distributions, equality of variances, etc., using standard statistical tests and graphical tools. The details of the computer program, a summary of the program updates based on feedback from beta testing, and results from verification runs on data presented in CMH-17 handbook are outlined in this paper.