

What if it is Not Feasible to Conduct a Traditional MSA?

Question Checklist for Measurement Systems:

- **What is the Root Source of data?**
 - Where is the data initially captured? (e.g. Manual Log Sheets, Computer Records, Inspection)
 - Is reporting mandatory or voluntary?
 - Who conducts the measurement / observation?
 - Is the data influenced by external standards / norms?
- **Are procedures clear and consistent?**
 - Are there written & visual procedures for measuring / observing?
 - Can the observers understand and appraise consistently to the procedures
 - Do all appraisers know the procedures? Are any “shortcuts” taken?
- **Are calculations and reporting verified?**
 - Is the reported data filtered (error checked)?
 - Can you verify the correctness of the mathematical equations used?
- **Are the Measurements Accurate?**
 - Is there a specific standard for comparison (e.g. Greenwich Mean Time)
 - Is your system traceable to the standard (e.g. Atomic Clocks vs. wristwatch)?
 - Are there clear definitions of defects, specifications,
 - Any biases? Same bias for all recorders? Same bias for all times of day?
- **Are the Measurements Precise?**
 - Are observers consistent within themselves (repeatability)?
 - Are observers consistent among all observers(reproducibility)?

