1.Calibration: **Force Extensometers Temperature** transducer according to E83 measurement Cooling air **Temperature** pressure, volume **Voltage control** control flow Calibration procedure no completed? yes 2.TGMF test setup: **Data Acquisition** Command Cooling **Thermal** /feedback phasing validation stability compensation Thermal strain Thermal strain **Preliminary** compensation validation measurements Test setup procedure no completed? 3.TGMF test: yes **Zero force** Start of **Monitoring Termination** thermal TGMF test the test of test cycles TGMF test procedure no completed? ↓ yes **Data** analysis