

TABLE A2E—ALTERNATIVE DATA SOURCES, PROCEDURES, AND INSTRUMENTATION—Continued

QPS REQUIREMENTS The standards in this table are required if the data gathering methods described in paragraph 9 of Appendix A are not used.				Information
Table of objective tests		Sim level		Notes
Test entry number and title		A	B	
2.d.1. Handling qualities. Lateral directional tests. Minimum control speed, air ( $V_{mca}$ or $V_{mcl}$ ), per applicable airworthiness standard or Low speed engine inoperative handling characteristics in the air.		X	X	Data may be acquired by using an inertial measurement system and a synchronized video of calibrated airplane instruments and force/position measurements of flight deck controls.
2.d.2. Handling qualities. Lateral directional tests. Roll response (rate).		X	X	Data may be acquired by using an inertial measurement system and a synchronized video of calibrated airplane instruments and force/position measurements of flight deck lateral controls.
2.d.3. Handling qualities. Lateral directional tests. Roll response to flight deck roll controller step input.		X	X	Data may be acquired by using an inertial measurement system and a synchronized video of calibrated airplane instruments and force/position measurements of flight deck lateral controls.
2.d.4. Handling qualities. Lateral directional tests. Spiral stability.		X	X	Data may be acquired by using an inertial measurement system and a synchronized video of calibrated airplane instruments; force/position measurements of flight deck controls; and a stop watch.
2.d.5. Handling qualities. Lateral directional tests. Engine inoperative trim.		X	X	Data may be hand recorded in-flight using high resolution scales affixed to trim controls that have been calibrated on the ground using protractors on the control/trim surfaces with winds less than 5 kts. OR Data may be acquired during second segment climb (with proper pilot control input for an engine-out condition) by using a synchronized video of calibrated airplane instruments and force/position measurements of flight deck controls.
2.d.6. Handling qualities. Lateral directional tests. Rudder response.		X	X	Data may be acquired by using an inertial measurement system and a synchronized video of calibrated airplane instruments and force/position measurements of rudder pedals.
2.d.7. Handling qualities. Lateral directional tests. Dutch roll, (yaw damper OFF).		X	X	Data may be acquired by using an inertial measurement system and a synchronized video of calibrated airplane instruments and force/position measurements of flight deck controls.
2.d.8. Handling qualities. Lateral directional tests. Steady state sideslip.		X	X	Data may be acquired by using an inertial measurement system and a synchronized video of calibrated airplane instruments and force/position measurements of flight deck controls. Ground track and wind corrected heading may be used for sideslip angle.
2.e.1. Handling qualities. Landings. Normal landing.			X	Data may be acquired by using an inertial measurement system and a synchronized video of calibrated airplane instruments and force/position measurements of flight deck controls.