

| Table B2A - Flight Training Device (FTD) Objective Tests |                          |                                                                                                                     |                                                |                                                                                                                                                                                                                                                                                             |           |   |             |                                                                                                                                                                                                                                                  |  |
|----------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| QPS REQUIREMENTS                                         |                          |                                                                                                                     |                                                |                                                                                                                                                                                                                                                                                             |           |   | INFORMATION |                                                                                                                                                                                                                                                  |  |
| Test                                                     |                          | Tolerance                                                                                                           | Flight Conditions                              | Test Details                                                                                                                                                                                                                                                                                | FTD Level |   |             | Notes                                                                                                                                                                                                                                            |  |
| Entry Number                                             | Title                    |                                                                                                                     |                                                |                                                                                                                                                                                                                                                                                             | 5         | 6 | 7           |                                                                                                                                                                                                                                                  |  |
| 2.d.5.                                                   | Engine Inoperative Trim. | $\pm 1^\circ$ rudder angle or $\pm 1^\circ$ tab angle or equivalent rudder pedal.<br>$\pm 2^\circ$ side-slip angle. | Second Segment Climb, and Approach or Landing. | be used.<br>CCA: Test in non-normal control mode.<br>This test may consist of snapshot tests.                                                                                                                                                                                               |           |   |             | Test should be performed in a manner similar to that for which a pilot is trained to trim an engine failure condition.<br><br>2nd segment climb test should be at takeoff thrust. Approach or landing test should be at thrust for level flight. |  |
| 2.d.6.a.                                                 | Rudder Response.         | $\pm 2^\circ/\text{s}$ or $\pm 10\%$ of yaw rate.                                                                   | Approach or Landing.                           | For Level 7 FTD: Test with stability augmentation on and off.<br>Test with a step input at approximately 25% of full rudder pedal throw.<br><br>Not required if rudder input and response is shown in Dutch Roll test (test 2.d.7).<br><br>CCA: Test in normal and non-normal control mode. |           | X |             |                                                                                                                                                                                                                                                  |  |
| 2.d.6.b.                                                 | Rudder Response.         | Roll rate $\pm 2^\circ/\text{sec}$ , bank angle $\pm 3^\circ$ .                                                     | Approach or Landing.                           | May be roll response to a given rudder deflection.<br>CCA: Test in Normal and Non-normal control states.                                                                                                                                                                                    | X         |   |             | May be accomplished as a yaw response test, in which case the procedures and requirements of test 2.d.6.a. will apply.                                                                                                                           |  |
| 2.d.7.                                                   | Dutch Roll               | $\pm 0.5$ s or $\pm 10\%$ of period.<br>$\pm 10\%$ of time to one half or double amplitude or $\pm 0.2$ of damping  | Cruise, and Approach or Landing.               | Test for at least six cycles with stability augmentation off.<br>CCA: Test in non-normal control mode.                                                                                                                                                                                      |           | X |             |                                                                                                                                                                                                                                                  |  |