

| Table B2E - Alternative Data Source for FTD Level 5                                                                          |                                                                                                                                                                                              |                                                                                       |                           |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------|
| Multi-Engine (Turbo-Propeller) Airplane                                                                                      |                                                                                                                                                                                              |                                                                                       |                           |
| QPS REQUIREMENT                                                                                                              |                                                                                                                                                                                              |                                                                                       |                           |
| The performance parameters in this table must be used to program the FTD if flight test data is not used to program the FTD. |                                                                                                                                                                                              |                                                                                       |                           |
| Applicable Test                                                                                                              |                                                                                                                                                                                              | Authorized Performance Range                                                          |                           |
| Entry Number                                                                                                                 | Title and Procedure                                                                                                                                                                          |                                                                                       |                           |
| 2.d.2.                                                                                                                       | Roll response.                                                                                                                                                                               |                                                                                       |                           |
|                                                                                                                              | Roll rate must be measured through at least 30 degree of roll. Aileron control must be deflected 1/3 (33.3 percent) of maximum travel.                                                       | Must have a roll rate of 4 - 25 degree /second.                                       |                           |
| 2.d.4.c.                                                                                                                     | Spiral stability.                                                                                                                                                                            |                                                                                       |                           |
|                                                                                                                              | Cruise configuration and normal cruise airspeed. Establish a 20 - 30 degree bank. When stabilized, neutralize the aileron control and release. Must be completed in both directions of turn. | Initial bank angle ( $\pm 5^\circ$ ) after 20 seconds.                                |                           |
| 2.d.6.b.                                                                                                                     | Rudder response.                                                                                                                                                                             |                                                                                       |                           |
|                                                                                                                              | Use 25 percent of maximum rudder deflection. (Applicable to approach or landing configuration.)                                                                                              | 3 - 6 degree /second yaw rate.                                                        |                           |
| 2.d.8.                                                                                                                       | Steady state sideslip.                                                                                                                                                                       |                                                                                       |                           |
|                                                                                                                              | Use 50 percent rudder deflection. (Applicable to approach and landing configurations.)                                                                                                       | 2 - 10 degree of bank;<br>4 - 10 degree of sideslip; and<br>2 - 10 degree of aileron. |                           |
| 6.                                                                                                                           | FTD System Response Time.                                                                                                                                                                    |                                                                                       |                           |
| 6.a.                                                                                                                         | Flight deck instrument systems response to an abrupt pilot controller input. One test is required in each axis (pitch, roll, yaw).                                                           |                                                                                       | 300 milliseconds or less. |