

(NN) control states, as indicated in this attachment. Where test results are independent of control state, Normal or Non-normal control data may be used. All tests in Table B2A require test results in the Normal control state unless specifically noted otherwise in the Test Details section following the CCA designation. The NSPM will determine what tests are appropriate for airplane simulation data. When making this determination, the NSPM may require other levels of control state degradation for specific airplane tests. Where Non-normal control states are required, test data must be provided for one or more Non-normal control states, and must include the least augmented state. Where applicable, flight test data must record Normal and Non-normal states for:

(1) Pilot controller deflections or electronically generated inputs, including location of input; and

(2) Flight control surface positions unless test results are not affected by, or are independent of, surface positions.

k. Tests of handling qualities must include validation of augmentation devices. FTDs for highly augmented airplanes will be validated both in the unaugmented configuration (or failure state with the maximum permitted degradation in handling qualities) and the augmented configuration. Where various levels of handling qualities result from failure states, validation of the effect of the failure is necessary. Requirements for testing will be mutually agreed to between the sponsor and the NSPM on a case-by-case basis.

l. Some tests will not be required for airplanes using airplane hardware in the FTD flight deck (e.g., “side stick controller”). These exceptions are noted in Section 2 “Handling Qualities” in Table B2A of this attachment. However, in these cases, the sponsor must provide a statement that the airplane hardware meets the appropriate manufacturer’s specifications and the sponsor must have supporting information to that fact available for NSPM review.

m. For objective test purposes, see Appendix F of this part for the definitions of “Near maximum,” “Light,” and “Medium” gross weight.

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#### END QPS REQUIREMENTS

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#### BEGIN INFORMATION

n. In those cases where the objective test results authorize a “snapshot test” or a “series of snapshot test results” in lieu of a time-history result, the sponsor or other data provider must ensure that a steady state condition exists at the instant of time captured by the “snapshot.” The steady state condition must exist from 4 seconds prior to, through 1 second following, the instant of time captured by the snapshot.

o. Refer to AC 120-27, “Aircraft Weight and Balance” and FAA-H-8083-1, “Aircraft Weight and Balance Handbook” for more information.

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#### END INFORMATION

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