

TABLE A3G—FUNCTIONS AND SUBJECTIVE TESTS

| QPS Requirements                                                                                                                                 |                                                                                             |                 |   |   |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------|---|---|---|
| Entry No.                                                                                                                                        | Special effects                                                                             | Simulator level |   |   |   |
|                                                                                                                                                  |                                                                                             | A               | B | C | D |
| Functions in this table are subject to evaluation only if appropriate for the airplane and/or the system is installed on the specific simulator. |                                                                                             |                 |   |   |   |
| 1. ....                                                                                                                                          | Simulator Power Switch(es) .....                                                            | X               | X | X | X |
| 2. ....                                                                                                                                          | Airplane conditions                                                                         |                 |   |   |   |
| 2.a. ....                                                                                                                                        | Gross weight, center of gravity, fuel loading and allocation .....                          | X               | X | X | X |
| 2.b. ....                                                                                                                                        | Airplane systems status .....                                                               | X               | X | X | X |
| 2.c. ....                                                                                                                                        | Ground crew functions (e.g., ext. power, push back) .....                                   | X               | X | X | X |
| 3. ....                                                                                                                                          | Airports                                                                                    |                 |   |   |   |
| 3.a. ....                                                                                                                                        | Number and selection .....                                                                  | X               | X | X | X |
| 3.b. ....                                                                                                                                        | Runway selection .....                                                                      | X               | X | X | X |
| 3.c. ....                                                                                                                                        | Runway surface condition (e.g., rough, smooth, icy, wet) .....                              | X               | X |   |   |
| 3.d. ....                                                                                                                                        | Preset positions (e.g., ramp, gate, #1 for takeoff, takeoff position, over FAF) .....       | X               | X | X | X |
| 3.e. ....                                                                                                                                        | Lighting controls .....                                                                     | X               | X | X | X |
| 4. ....                                                                                                                                          | Environmental controls                                                                      |                 |   |   |   |
| 4.a. ....                                                                                                                                        | Visibility (statute miles (kilometers)) .....                                               | X               | X | X | X |
| 4.b. ....                                                                                                                                        | Runway visual range (in feet (meters)) .....                                                | X               | X | X | X |
| 4.c. ....                                                                                                                                        | Temperature .....                                                                           | X               | X | X | X |
| 4.d. ....                                                                                                                                        | Climate conditions (e.g., ice, snow, rain) .....                                            | X               | X | X | X |
| 4.e. ....                                                                                                                                        | Wind speed and direction .....                                                              | X               | X | X | X |
| 4.f. ....                                                                                                                                        | Windshear .....                                                                             | X               | X |   |   |
| 4.g. ....                                                                                                                                        | Clouds (base and tops) .....                                                                | X               | X | X | X |
| 5. ....                                                                                                                                          | Airplane system malfunctions (Inserting and deleting malfunctions into the simulator) ..... | X               | X | X | X |
| 6. ....                                                                                                                                          | Locks, Freezes, and Repositioning                                                           |                 |   |   |   |
| 6.a. ....                                                                                                                                        | Problem (all) freeze/release .....                                                          | X               | X | X | X |
| 6.b. ....                                                                                                                                        | Position (geographic) freeze/release .....                                                  | X               | X | X | X |
| 6.c. ....                                                                                                                                        | Repositioning (locations, freezes, and releases) .....                                      | X               | X | X | X |
| 6.d. ....                                                                                                                                        | Ground speed control .....                                                                  | X               | X | X | X |
| 7. ....                                                                                                                                          | Remote IOS .....                                                                            | X               | X | X | X |
| 8. ....                                                                                                                                          | Sound Controls. On/off/adjustment .....                                                     | X               | X | X | X |
| 9. ....                                                                                                                                          | Motion/Control Loading System                                                               |                 |   |   |   |
| 9.a. ....                                                                                                                                        | On/off/emergency stop .....                                                                 | X               | X | X | X |
| 10. ....                                                                                                                                         | Observer Seats/Stations. Position/Adjustment/Positive restraint system .....                | X               | X | X | X |