
GACAR PART 60 – FLIGHT SIMULATION TRAINING DEVICES AND AVIATION TRAINING DEVICES

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SUBPART A – GENERAL

§ 60.1 Applicability.

(a) This part prescribes the rules governing—

(1) The initial and continuing qualification and use of all aircraft flight simulation training devices (FSTD) used for meeting training, evaluation, or flight experience requirements for flight crew member certification or qualification under the General Authority of Civil Aviation Regulation (GACAR);

(2) The procedural requirements for acceptance of FSTD qualifications issued by foreign states; and

(3) The approval of aviation training devices (ATDs) used to meet pilot training, flight experience, or currency requirements for pilot certification or qualification under the GACAR.

(b) The rules of this part apply to each person using or applying to use—

(1) An FSTD to meet any training, evaluation, or flight experience requirement for flight crew member certification or qualification under the GACAR or

(2) An ATD to meet any pilot training, flight experience, or currency requirement for pilot certification or qualification under the GACAR.

(c) The requirements of GACAR § 60.3 regarding falsification of applications or records also apply to each person who uses—

(1) An FSTD for training, evaluation, or obtaining flight experience required for flight crew member certification or qualification or

(2) An ATD for pilot training, obtaining flight experience, or maintaining currency required for pilot certification or qualification.

§ 60.3 Applications, Logbooks, and Records: Fraud, Falsification, or Incorrect Statements.

(a) No person may make, or cause to be made, any of the following:

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- (1) A fraudulent or intentionally false statement in any application or request, or any amendment thereto, or any other test result required by this part;
 - (2) A fraudulent or intentionally false statement in or a known omission from any record that is kept, made, or used to show compliance with this part, or to exercise any privileges; and
 - (3) Any reproduction or alteration, for fraudulent purpose, of any record or test result required under this part.
- (b) The following may serve as a basis for the withdrawal of approval for use of an FSTD or ATD or denying an application for qualification or request for approval for use:
- (1) An incorrect statement, upon which the General Authority of Civil Aviation (GACA) relied or could have relied, made in support of an application for qualification or a request for approval for use or
 - (2) An incorrect entry, upon which the GACA relied or could have relied, made in any logbook or record that is kept, made, or used to show compliance with any requirement for an FSTD qualification or an approval for use of an FSTD or ATD.

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SUBPART B – FLIGHT SIMULATION TRAINING DEVICES

§ 60.13 Applicability of Sponsor Rules to Persons Who Are Not Sponsors and Who Are Engaged in Certain Unauthorized Activities.

(a) The rules of this part directed to a sponsor of an FSTD also apply to any person who uses or causes the use of an FSTD when—

(1) That person knows that the FSTD does not have an approved sponsor and

(2) The use of the FSTD by that person is nonetheless claimed for purposes of meeting any training, evaluation, or flight experience requirement; or that person knows or should have known the person's acts or omissions would cause another person to mistakenly credit use of the FSTD for purposes of meeting any training, evaluation, or flight experience training, evaluation, or flight experience requirement.

(b) A situation in which paragraph (a) of this section would not apply to a person would be when each of the following conditions is met:

(1) The person sold or leased the FSTD and merely represented to the purchaser or lessee that the FSTD is in a condition in which it should be able to obtain approval and qualification under this part,

(2) The person does not falsely claim to be the approved sponsor for the FSTD,

(3) The person does not falsely make representations that someone else is the approved sponsor of the FSTD at a time when that other person is not the approved sponsor of the FSTD, and

(4) The person's acts or omissions do not cause another person to rely detrimentally on such acts or omissions for the mistaken conclusion that the FSTD is approved and qualified under this part at the time the FSTD is sold or leased.

§ 60.15 Definitions and Abbreviations.

To the extent they are not contradicted by definitions and acronyms contained in GACAR Part 1, the definitions and acronyms contained in appendix F to Title 14, Code of Federal Regulations of the United States (14 CFR) part 60 are applicable to this subpart.

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§ 60.17 Qualification Performance Standards.

(a) The Qualification Performance Standards (QPS) for qualification of FSTDs by the GACA must be as determined or accepted by the President.

(b) Subject to the exceptions noted in paragraphs (d) and (e) of this section, the QPS specified in the following appendixes to 14 CFR part 60 are deemed acceptable as QPS for purposes of qualification of FSTDs by the GACA:

- (1) Appendix A contains the QPS for Airplane Flight Simulators.
- (2) Appendix B contains the QPS for Airplane Flight Training Devices.
- (3) Appendix C contains the QPS for Rotorcraft Flight Simulators.
- (4) Appendix D contains the QPS for Rotorcraft Flight Training Devices.
- (5) Appendix E contains the QPS for Quality Management Systems (QMS) for FSTDs.

NOTE: The appendixes to 14 CFR part 60 have content designated as either information or QPS. Although content designated as information may be instructive in determining the meaning of the QPS, paragraph (b) of this section refers only to content designated as QPS in the referenced appendixes.

(c) Within 14 CFR part 60, whenever the following words or phrases are used, replace them with the corresponding word or phrase noted in the following table:

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14 CFR Word, Phrase, or Reference:	Replace with:
<i>“Airport”</i>	<i>“Aerodrome”</i>
<i>“BOW”</i>	<i>“BOM”</i>
<i>“check airman”</i>	<i>“check pilot”</i>
<i>“FAA” [except when referring to a tool or aid produced by the FAA].</i>	<i>“GACA”</i>
<i>“this chapter”</i>	<i>“the GACA regulations (GACAR)”</i>
<i>“WAT”</i>	<i>“MAT”</i>
<i>“Weight”</i>	<i>“Mass”</i>
<i>§ 121.358</i>	<i>TBD</i>
<i>§ 121.409</i>	<i>TBD</i>
<i>Reference to the FAA Administrator or any other person, position, or organization within the FAA.</i>	<i>President, GACA</i>

(d) The standards referenced above are adopted subject to the following exceptions:

(1) Reserved.

§ 60.19 Quality Management System.

(a) No sponsor may use or allow the use of or offer the use of an FSTD for flight crew member training or evaluation or for obtaining flight experience to meet any training, evaluation, or flight experience requirement unless the sponsor has established and follows a QMS, currently approved by the President or the Foreign Qualifying Authority (FQA), for the continuing surveillance and analysis of the sponsor’s performance and effectiveness in providing a satisfactory FSTD for use on a regular basis.

(b) The QMS program must provide a process for identifying deficiencies in the program and for documenting how the program will be changed to address these deficiencies.

(c) Whenever the President finds that the QMS program does not adequately address the procedures necessary to meet the requirements of this part, the sponsor, after notification by the President, must

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change the program so the procedures meet the requirements of this part. Each such change must be approved by the President prior to implementation. A sponsor may petition for reconsideration of the President's finding in accordance with the procedures specified in GACAR Part 13.

§ 60.21 Sponsor Qualification Requirements.

(a) A person is eligible to apply to be a sponsor of an FSTD if the following conditions are met:

(1) The person holds, or is an applicant for, a certificate under GACAR Part 121, 141, or 142; or holds, or is an applicant for, an approved flight engineer course in accordance with GACAR Part 143.

(2) The FSTD will be used, or will be offered for use, in the sponsor's GACA-approved flight training program for the aircraft being simulated.

(b) A person is a sponsor if the following conditions are met:

(1) The person is a certificate holder under GACAR Part 121, 141, or 142 or has an approved flight engineer course in accordance with GACAR Part 143.

(2) The person has—

(i) Authorizing documents providing for the use of the specific aircraft or set of aircraft and has a GACA-approved training program under which at least one FSTD, simulating the aircraft or set of aircraft and for which the person is the sponsor, is used by the sponsor as described in paragraph (b)(5) of this section or

(ii) Authorizing documents or a GACA-approved course of training under which at least one FSTD, simulating that aircraft or set of aircraft and for which the person is the sponsor, is used by the sponsor as described in paragraph (b)(5) of this section.

(3) The person has a QMS currently approved by the President or FQA in accordance with GACAR § 60.19.

(4) The President has accepted the person as the sponsor of the FSTD and that acceptance has not been withdrawn.

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(5) At least one FSTD (as referenced in paragraph (b)(2)(i) or (ii) of this section) is used within the sponsor's GACA-approved flight training program for the aircraft or set of aircraft at least once within the 12-month period following the initial/upgrade evaluation, and at least once within each subsequent 12-month period thereafter.

(c) If the use requirements of paragraphs (b)(2) and (5) of this section are not met, the person will forfeit the right to sponsor that FSTD and will not be eligible to apply to sponsor that FSTD for at least 12 months following the expiration of the qualification status.

(d) In addition to the FSTD described in paragraph (b) of this section, an FSTD sponsor may sponsor any number of other FSTDs regardless of specific aircraft or set of aircraft provided either—

(1) During the preceding 12-month period, all of the other FSTDs are used within the sponsor's or another certificate holder's GACA-approved flight training program for the aircraft or set of aircraft simulated; or

(2) The sponsor obtains a written statement at least annually from a qualified pilot who has flown the aircraft or set of aircraft (as appropriate) during the preceding 12-month period stating that the subject FSTD's performance and handling qualities, within the normal operating envelope, represent the aircraft or set of aircraft described in the type design approved in accordance with GACAR Part 21. The sponsor must retain the two most current written statements for review by the President.

§ 60.23 Additional Responsibilities of the Sponsor.

(a) The sponsor must allow the President upon request to inspect the FSTD as soon as practicable. This inspection may include all records and documents relating to the FSTD, to determine its compliance with this part.

(b) The sponsor must do the following for each FSTD:

(1) Establish a mechanism to receive written comments regarding the FSTD and its operation in accordance with the requirements specified in appendix E to 14 CFR part 60.

(2) Post in or adjacent to the FSTD the Statement of Qualification (SOQ) issued by the President. An electronic copy of the SOQ that may be accessed by an appropriate terminal or display in or adjacent to the FSTD is satisfactory.

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(c) Each sponsor of an FSTD must identify to the President by name, one individual to be the management representative (MR).

(1) One person may serve as an MR for more than one FSTD, but one FSTD must not have more than one person serving in this capacity.

(2) Each MR must be an employee of the sponsor with the responsibility and authority to—

(i) Monitor the on-going qualification of assigned FSTDs to ensure that all matters regarding FSTD qualification are being carried out as provided for in this part;

(ii) Ensure a QMS is properly established, implemented, and maintained by overseeing, and modifying where necessary, the structure of the QMS policies, practices, and procedures; and

(iii) Regularly brief sponsor's management on the status of the on-going FSTD qualification program and the effectiveness and efficiency of the QMS.

(3) The MR serves as the primary contact point for all matters between the sponsor and the GACA regarding the qualification of that FSTD as provided for in this part.

(4) The MR may delegate the duties described in paragraphs (c)(2) and (3) of this section to an individual at each of the sponsor's locations.

§ 60.25 FSTD Use.

No person may use or allow the use of or offer the use of an FSTD for flight crew member training or evaluation or for obtaining flight experience to meet any of the requirements for flight crew member certification or qualification under the GACAR unless, in accordance with the QPS for the specific device, the FSTD meets all of the following:

(a) Has a single sponsor who is qualified under GACAR § 60.21. The sponsor may arrange with another person for services of document preparation and presentation, as well as FSTD inspection, maintenance, repair, and servicing; however, the sponsor remains responsible for ensuring that these functions are conducted in a manner and with a result of continually meeting the requirements of this part.

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(b) Is qualified as described in the SOQ.

(c) Remains qualified, through satisfactory inspection, continuing qualification evaluations, appropriate maintenance, and use requirements in accordance with this part and the applicable QPS.

(d) Functions during day-to-day training, evaluation, or flight experience activities with the software and hardware that was evaluated as satisfactory by the President or the FQA and, if modified, modified only in accordance with the provisions of this part. However, this section does not apply to routine software or hardware changes that do not fall under the requirements of GACAR § 60.43.

(e) Is operated in accordance with the provisions and limitations of GACAR § 60.45.

§ 60.27 FSTD Objective Data Requirements.

(a) Except as provided in paragraphs (b) and (c) of this section, for the purposes of validating FSTD performance and handling qualities during evaluation for qualification, the data made available to the President or the FQA (the validation data package) must include the aircraft manufacturer's flight test data and all relevant data developed after the type certificate was issued (for example, data developed in response to an airworthiness directive) if such data results from a change in performance, handling qualities, functions, or other characteristics of the aircraft that must be considered for meeting flight crew member training, evaluation, or experience requirements.

(b) The validation data package may contain flight test data from a source in addition to or independent of the aircraft manufacturer's data in support of an FSTD qualification, but only if this data is gathered and developed by that source in accordance with flight test methods, including a flight test plan, as described in the applicable QPS.

(c) The validation data package may also contain predicted data, engineering simulation data, data from pilot owner or pilot operating manuals, or data from public domain sources, provided this data is acceptable to the President or the FQA. If found acceptable, the data may then be used in particular applications for FSTD qualification.

(d) Data or other material or elements must be submitted in a form and manner acceptable to the President or the FQA.

(e) The President may require additional objective data, which may include flight testing, if

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necessary, if the validation data package does not support FSTD qualification requirements as described in this part and the applicable QPS appendix.

(f) When an FSTD sponsor learns, or is advised by an aircraft manufacturer or other data provider, that an addition to, an amendment to, or a revision of data that may relate to FSTD performance or handling characteristics is available, the sponsor must notify the President as described in the applicable QPS.

§ 60.29 Special Equipment and Personnel Requirements for Qualification of the FSTD.

When notified by the President, the sponsor must make available all special equipment and qualified personnel needed to accomplish or assist in the accomplishment of tests during initial qualification, continuing qualification, or special evaluations.

§ 60.31 Initial Qualification Requirements.

(a) For each FSTD, the sponsor must submit a request to the President to evaluate the FSTD for initial qualification at a specific level. The request must be submitted in the form and manner specified by the President.

(b) The MR described in GACAR § 60.23(c) must sign a statement (electronic signature is acceptable for electronic transmissions) after confirming the following:

(1) The performance and handling qualities of the FSTD represent those of the aircraft or set of aircraft within the normal operating envelope. This determination must be made by a pilot(s) meeting the requirements of paragraph (d) of this section after having flown all of the operations tasks listed in the applicable QPS appendix relevant to the qualification level of the FSTD. Exceptions, if any, must be noted. The name of the person(s) making this determination must be available to the President upon request.

(2) The FSTD systems and subsystems (including the simulated aircraft systems) functionally represent those in the aircraft or set of aircraft. This determination must be made by the pilot(s) described in paragraph (b)(1) of this section, or by a person(s) trained on simulator systems/subsystems and trained on the operation of the simulated aircraft systems, after having exercised the operation of the FSTD and the pertinent functions available through the Instructor Operating Station(s). Exceptions, if any, must be noted. The name of the person(s) making this determination must be available to the President upon request.

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(3) The flightdeck represents the configuration of the specific type; or aircraft make, model, and series aircraft being simulated, as appropriate. This determination must be made by the pilot(s) described in paragraph (b)(1) of this section, or by a person(s) trained on the configuration and operation of the aircraft simulated. Exceptions, if any, must be noted. The name of the person(s) making this determination must be available to the President upon request.

(c) Except for those FSTDs previously qualified and described in GACAR § 60.35, and except as otherwise provided in this section, each FSTD evaluated for initial qualification must meet the standard in effect at the time of the evaluation.

(d) Notwithstanding paragraph (c) of this section, if a change to the existing standard or a new standard for the evaluation for initial qualification is published, a sponsor may request that the President apply the standard that was in effect when an FSTD was ordered for delivery, subject to the following conditions and provisions:

(1) Within 30 days of the publication of the change to the existing standard or publication of the new standard, the sponsor must notify the President that an FSTD has been ordered. This notification must include a description of the FSTD; the anticipated qualification level of the FSTD; the make, model, and series of aircraft simulated; and any other pertinent information.

(2) Within 90 days of the notification described in paragraph (c)(1) of this section, the sponsor must request that the standard in effect at the time the order was placed be used for the evaluation for initial qualification.

(3) Within 24 months following the publication of the change to the existing standard or publication of the new standard, the sponsor must conduct the evaluation.

(4) Any tests, tolerances, or other requirements current at the time of the evaluation may be used during the initial evaluation, at the request of the sponsor, if the sponsor provides acceptable updates to the required Qualification Test Guide (QTG).

(5) The standards used for the evaluation for initial qualification must be used for all subsequent evaluations of the FSTD.

(e) The pilot(s) who contributes to the confirmation statement required by paragraph (b) of this section must—

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(1) Be designated by the sponsor; and

(2) Be qualified in—

(i) The aircraft or set of aircraft being simulated; or

(ii) For aircraft not yet issued a type certificate, or aircraft not previously operated by the sponsor or not having previous GACA-approved training programs conducted by the sponsor, an aircraft similar in size and configuration.

(f) The subjective tests that form the basis for the statements described in paragraph (b) of this section and the objective tests referenced in paragraph (g) of this section must be accomplished at the sponsor's training facility, except as provided for in the applicable QPS.

(g) The person seeking to qualify the FSTD must provide the President access to it for the length of time necessary for the President to complete the required evaluation for initial qualification, which includes the conduct and evaluation of objective and subjective tests, including general FSTD requirements, as described in the applicable QPS, to determine that the FSTD meets the standards in that QPS.

(h) For FSTDs for which qualification is sought in accordance with GACAR § 60.55, the President may accept the evaluation conducted by the FQA as partial or complete satisfaction of the initial evaluation requirements of this section.

(i) When the FSTD passes an evaluation for initial qualification, the President issues an SOQ that includes all of the following:

(1) Identification of the sponsor;

(2) Identification of the make, model, and series of the aircraft or set of aircraft being simulated;

(3) Identification of the configuration of the aircraft or set of aircraft being simulated (for example, engine model or models, flight instruments, or navigation or other systems);

(4) A statement that the FSTD is qualified as either a full flight simulator (FFS) or a flight training device;

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(5) Identification of the qualification level of the FSTD; and

(6) A statement that (with the exception of the noted exclusions for which the FSTD has not been subjectively tested by the sponsor or the President and for which qualification is not sought) the qualification of the FSTD includes the tasks set out in the applicable QPS appendix relevant to the qualification level of the FSTD.

(j) After the President completes the evaluation for initial qualification, the sponsor must update the QTG, or an equivalent document prescribed by an FQA, with the results of the GACA- or FQA-witnessed tests together with the results of all the objective tests described in the applicable QPS.

(k) Upon issuance of the SOQ, the updated QTG, or equivalent document prescribed by an FQA, becomes the Master Qualification Test Guide (MQTG). The MQTG must be made available to the President upon request.

§ 60.33 Additional Qualifications for a Currently Qualified FSTD.

(a) A currently qualified FSTD is required to undergo an additional qualification process if a user intends to use the FSTD for meeting training, evaluation, or flight experience requirements beyond the qualification issued for that FSTD. This process consists of the following:

(1) The sponsor must submit to the President—

(i) All modifications to the MQTG, or equivalent document prescribed by an FQA, required to support the additional qualification;

(ii) All modifications to the FSTD required to support the additional qualification; and

(iii) A confirmation statement as described in GACAR § 60.31(b) that a pilot, designated by the sponsor in accordance with GACAR § 60.31(e), has subjectively evaluated the FSTD in those areas not previously evaluated.

(2) The FSTD must successfully pass an evaluation consisting of—

(i) All the elements of an initial evaluation for qualification in those circumstances where the President has determined that all the elements of an initial evaluation for qualification

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is necessary; or

(ii) Those elements of an initial evaluation for qualification designated as necessary by the President.

(b) In making the determinations described in paragraph (a)(2) of this section, the President considers factors including the existing qualification of the FSTD, any modifications to the FSTD hardware or software involved, and any additions or modifications to the MQTG.

(c) For FSTDs qualified in accordance with GACAR § 60.55, the President may accept the evaluation conducted by the FQA as partial or complete satisfaction of the evaluation requirements of this section.

(d) The FSTD is qualified for the additional uses when the President issues an amended SOQ in accordance with GACAR § 60.31(i).

(e) The sponsor may not modify the FSTD except as described in GACAR § 60.43.

§ 60.35 Previously Qualified FSTDs.

(a) If the FSTD qualification is suspended under GACAR § 60.47 and—

(1) Restored under GACAR § 60.47 in less than 2 years, then the qualification basis (in terms of objective tests and subjective tests) for the re-qualification will be those against which the FSTD was originally evaluated and qualified or

(2) Not restored under GACAR § 60.47 for 2 years or more, then the qualification basis (in terms of objective tests and subjective tests) for the re-qualification will be those standards in effect and current at the time of re-qualification application.

(b) Except as provided in paragraph (c) of this section, any change in FSTD qualification level requires an evaluation for initial qualification in accordance with this part.

(c) A sponsor may request that an FSTD be permanently downgraded. In such a case, the President may downgrade a qualified FSTD without requiring and without conducting an initial evaluation for the new qualification level. Subsequent continuing qualification evaluations will use the existing MQTG, modified as necessary to reflect the new qualification level.

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(d) When the sponsor has appropriate validation data available and receives approval from the President, the sponsor may adopt tests and associated tolerances described in the current qualification standards as the tests and tolerances applicable for the continuing qualification of a previously qualified FSTD. The updated test(s) and tolerance(s) must be made a permanent part of the MQTG.

§ 60.37 Inspection, Continuing Qualification Evaluation, and Maintenance Requirements.

(a) **Inspection.** No sponsor may use or allow the use of or offer the use of an FSTD to meet any flight crew member training, evaluation, or flight experience requirements under the GACAR unless the sponsor does the following:

- (1) Accomplishes all appropriate objective tests each year as specified in the applicable QPS and
- (2) Completes a functional preflight check within the preceding 24 hours.

(b) **Continuing qualification evaluation.**

- (1) This evaluation consists of objective tests, and subjective tests, including general FSTD requirements, as described in the applicable QPS or as may be amended as directed by the President.
- (2) The sponsor must contact the President to schedule the FSTD for continuing qualification evaluations not later than 60 days before the evaluation is due.
- (3) The sponsor must provide the President access to the objective test results in the MQTG and access to the FSTD for the length of time necessary for the President to complete the required continuing qualification evaluations.
- (4) The frequency of continuing qualification evaluations for each FSTD will be established by the President and specified in the MQTG.
- (5) Continuing qualification evaluations conducted in the month before or after the month in which these continuing qualification evaluations are required will be considered to have been conducted in the month in which they were required.

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(6) No sponsor may use, allow the use of, or offer the use of an FSTD to meet any flight crew member training or evaluation, or flight experience requirements unless the FSTD has passed a continuing qualification evaluation within the timeframe specified in the MQTG or within the grace period as described in paragraph (b)(5) of this section.

(7) For FSTDs qualified in accordance with GACAR § 60.55, the President may accept evaluations conducted by the FQA as partial or complete satisfaction of the continuing evaluation requirements of this section.

(c) **Maintenance.** The sponsor is responsible for continuing corrective and preventive maintenance on the FSTD to ensure it continues to meet the requirements of this part and the applicable QPS requirements. No sponsor may use, allow the use of, or offer the use of an FSTD to meet any flight crew member training, evaluation, or flight experience requirements under the GACAR unless the sponsor does the following:

(1) Maintains a discrepancy log and

(2) Ensures, when a discrepancy is discovered, the following requirements are met—

(i) A description of each discrepancy is entered in the log and remains in the log until the discrepancy is corrected as specified in GACAR § 60.45(b);

(ii) A description of the corrective action taken for each discrepancy, the identity of the individual taking the action, and the date that action is taken is entered in the log; and

(iii) The discrepancy log is kept in a form and manner acceptable to the President and is kept in or adjacent to the FSTD. An electronic log that may be accessed by an appropriate terminal or display in or adjacent to the FSTD is satisfactory.

§ 60.39 Logging FSTD Discrepancies.

Each instructor, check pilot, or representative of the President conducting training, evaluation, or flight experience, and each person conducting the preflight inspection who discovers a discrepancy, including any missing, malfunctioning, or inoperative (MMI) components in the FSTD, must write or cause to be written a description of that discrepancy into the discrepancy log at the end of the FSTD preflight or FSTD use session.

§ 60.41 Interim Qualification of FSTDs for New Aircraft Types or Models.

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(a) A sponsor may apply for and the President may issue an interim qualification level for an FSTD for a new type or model of aircraft, even though the aircraft manufacturer's aircraft data package is preliminary, if the sponsor provides the following to the satisfaction of the President or the FQA:

- (1) The aircraft manufacturer's data, which consists of at least predicted data, validated by a limited set of flight test data;
- (2) The aircraft manufacturer's description of the prediction methodology used to develop the predicted data; and
- (3) The QTG test results.

(b) An FSTD that has been issued interim qualification is deemed to have been issued initial qualification unless the President rescinds the qualification. Interim qualification terminates 2 years after its issuance, unless the President determines that specific conditions warrant otherwise.

(c) Within 12 months of the release of the final aircraft data package by the aircraft manufacturer, but no later than 2 years after the issuance of the interim qualification status, the sponsor must apply for initial qualification in accordance with GACAR § 60.31 based on the final aircraft data package approved by the aircraft manufacturer, unless the President determines that specific conditions warrant otherwise.

(d) An FSTD with interim qualification may be modified only in accordance with GACAR § 60.43.

§ 60.43 Modifications to FSTDs.

(a) ***Description of a modification.*** For the purposes of this part, an FSTD is said to have been modified when—

- (1) Equipment or devices intended to simulate aircraft appliances are added to or removed from the FSTD, which change the SOQ or the MQTG; or
- (2) Changes are made to either software or hardware intended to impact flight or ground dynamics; changes are made that impact performance or handling characteristics of the FSTD (including motion, visual, control loading, or sound systems for those FSTD levels requiring sound tests and measurements); or changes are made to the MQTG.

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(b) ***GACA-directed modifications.*** When the GACA determines that FSTD modification is necessary for flight safety, the sponsor of each affected FSTD must ensure the FSTD is modified as directed by the President regardless of the original qualification standards applicable to any specific FSTD.

(c) ***Using the modified FSTD.*** The sponsor may not use, allow the use of, or offer the use of, the FSTD with the proposed modification for flight crew member training or evaluation or for obtaining flight experience for the flight crew member to meet any training, evaluation, or flight experience requirement under the GACAR unless—

(1) The sponsor has notified the President of its intent to incorporate the proposed modification, and one of the following has occurred:

(i) The President has approved the proposed modification.

(ii) Twenty-one working days have passed since the sponsor notified the President of the proposed modification and the sponsor has not received any response from the President.

(iii) The sponsor has successfully completed any evaluation the President may require in accordance with the standards for an evaluation for initial qualification or any part thereof before the modified FSTD is placed in service.

(2) The notification is submitted with the content, and in a form and manner, as specified by the President.

(d) ***User notification.*** When a modification is made to an FSTD that affects the SOQ, the sponsor must post an addendum to the SOQ until such time as a permanent, updated statement is posted.

(e) ***MQTG update.*** The MQTG must be updated with current objective test results in accordance with GACAR §§ 60.31(j) and (k) and appropriate objective data in accordance with GACAR § 60.27, each time an FSTD is modified and an objective test or other MQTG section is affected by the modification. If a directive issued by the President is the cause of this update, the directive and the record of the modification completion must be filed in the MQTG.

§ 60.45 Operation With Missing, Malfunctioning, or Inoperative Components.

(a) No person may knowingly use or allow the use of or misrepresent the capability of an FSTD for any maneuver, procedure, or task that is to be accomplished to meet training, evaluation, or flight

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experience requirements for flight crew member certification or qualification when there is an MMI component that is required to be present and correctly operate for the satisfactory completion of that maneuver, procedure, or task.

(b) Each MMI component as described in paragraph (a) of this section, or any MMI component installed and required to operate correctly to meet the current SOQ, must be repaired or replaced within 30 days, unless otherwise required or authorized by the President or the FQA.

(c) A list of the current MMI components must be readily available in or adjacent to the FSTD for review by users of the device. Electronic access to this list via an appropriate terminal or display in or adjacent to the FSTD is satisfactory. The discrepancy log may be used to satisfy this requirement provided each currently MMI component is listed in the discrepancy log.

§ 60.47 Automatic Suspension of Qualification and Procedures for Restoration of Qualification.

(a) An FSTD qualification is automatically suspended when any of the following occurs:

(1) The FSTD is not used in the sponsor's GACA-approved flight training program in accordance with GACAR § 60.21(b)(5) and the sponsor does not obtain and maintain the written statement as described in GACAR § 60.21(d)(2).

(2) The FSTD is not inspected in accordance with GACAR § 60.37.

(3) The FSTD is physically moved from one location and installed in a different location, regardless of distance.

(4) The MQTG is missing or otherwise not available and a replacement is not made within 30 days.

(b) If FSTD qualification is suspended under paragraph (a) of this section, qualification is restored when either of the following provisions is met:

(1) The FSTD successfully passes an evaluation—

(i) For initial qualification, in accordance with GACAR §§ 60.31 and 60.35(a) in those circumstances where the President has determined that a full evaluation for initial

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qualification is necessary or

(ii) For those elements of an evaluation for initial qualification, in accordance with GACAR §§ 60.31 and 60.35(a), as determined to be necessary by the President.

(2) The President advises the sponsor an evaluation is not necessary.

(c) In making the determinations described in paragraph (b) of this section, the President considers factors including the number of continuing qualification evaluations missed, the number of sponsor-conducted quarterly inspections missed, and the care that had been taken of the device since the last evaluation.

§ 60.49 Suspension or Revocation of Qualification and Procedures for Restoration of Qualification.

(a) The President may suspend, revoke, amend, or modify any SOQ or other authorization issued under this part, in accordance with the procedures specified in GACAR Part 13, if the President determines that aviation and the public interest require the suspension, revocation, amendment, or modification.

(b) A sponsor may petition for reconsideration of an order of the President suspending, revoking, amending, or modifying an SOQ or other authorization issued under this part in accordance with the procedures specified in GACAR Part 13.

(c) FSTD qualification suspended or revoked under paragraph (a) or (b) of this section may be restored provided either—

(1) The FSTD successfully passes an evaluation for initial qualification, in accordance with GACAR §§ 60.31 and 60.35(a) in those circumstances where the President has determined that a full evaluation for initial qualification is necessary; or

(2) The FSTD successfully passes an evaluation for those elements of an initial qualification evaluation, in accordance with GACAR §§ 60.31 and 60.35(a), as determined to be necessary by the President.

(d) In making the determinations described in paragraph (c) of this section, the President considers factors including the reason for the suspension or revocation of qualification, any repairs or

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replacements that may have been required, the number of continuing qualification evaluations missed, the number of sponsor-conducted quarterly inspections missed, and the care that had been taken of the device since the suspension or revocation of qualification.

§ 60.51 Recordkeeping.

(a) The FSTD sponsor must maintain the following records for each FSTD it sponsors:

(1) The MQTG and each amendment thereto.

(2) A record of all FSTD modifications affected under GACAR § 60.43 since the issuance of the original SOQ.

(3) A copy of all of the following—

(i) Results of the qualification evaluations (initial and each upgrade) since the issuance of the original SOQ;

(ii) Results of the objective tests conducted in accordance with GACAR § 60.37(a)(1) for a period of 2 years;

(iii) Results of the previous three continuing qualification evaluations, or the continuing qualification evaluations from the previous 2 years, whichever covers a longer period; and

(iv) Comments obtained in accordance with GACAR § 60.23(b) for a period of at least 90 days.

(4) A record of all discrepancies entered in the discrepancy log over the previous 2 years, including the following:

(i) A list of the components or equipment that were or are MMI.

(ii) The action taken to correct the discrepancy.

(iii) The date the corrective action was taken.

(iv) The identity of the person determining the discrepancy has been corrected.

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(b) The records specified in this section must be maintained in plain language form or in coded form if the coded form provides for the preservation and retrieval of information in a manner acceptable to the President.

§ 60.53 Specific Full Flight Simulator Compliance Requirements.

(a) No device will be eligible for initial or upgrade qualification to a FFS at Level C or Level D under this part unless it includes the equipment and appliances installed and operating to the extent necessary for the issuance of an airman certificate or rating.

(b) No device will be eligible for initial or upgrade qualification to an FFS at Level A or Level B under this part unless it includes the equipment and appliances installed and operating to the extent necessary for the training, testing, and/or checking that comprise the simulation portion of the requirements for issuance of an airman certificate or rating.

§ 60.55 FSTD Qualification on the Basis of Foreign Qualification.

(a) The evaluation and qualification of an FSTD by a contracting State to the Convention on International Civil Aviation may be used as the basis for issuing a GACA SOQ to the sponsor of that FSTD seeking the GACA qualification of the FSTD.

(b) The FSTD must successfully pass an evaluation for those elements of an evaluation for initial qualification, in accordance with GACAR §§ 60.31 and 60.35(a), as determined to be necessary by the President.

(c) The FSTD must successfully pass a complete initial qualification, in accordance with GACAR §§ 60.31 and 60.35(a), if the sponsor is seeking qualification at a higher level than the current foreign qualification.

(d) Sponsors of foreign-qualified FSTDs, upon request by the President, must provide evidence of current foreign qualification for each such FSTD.

§ 60.57 Notification of Changes to Foreign Qualification Status.

The sponsor of any FSTD qualified under GACAR § 60.55 must notify the President within 1 working day of any suspension, revocation, modification, or other change of the status of the qualification of the FSTD by the FQA.

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SUBPART C – AVIATION TRAINING DEVICES

§ 60.67 ATD Approval and Use.

Before a person may use an ATD for administering or receiving pilot training, obtaining flight experience, or maintaining currency requirements for pilot certification or qualification under the GACAR—

- (a) The manufacturer of the ATD must, with respect to that ATD model and configuration:
- (1) Hold a letter of approval issued by the President under this subpart; or
 - (2) Hold an equivalent approval document issued by a contracting State to the Convention on International Civil Aviation that is acceptable to the President; and
- (b) The person seeking to use the ATD must receive approval from the President under GACAR § 60.69.

§ 60.69 Procedure for Approval of ATD Use.

- (a) Any person seeking to use an ATD for pilot training, obtaining flight experience, or maintaining currency requirements for pilot certification or qualification under the GACAR must request approval as follows:
- (1) A person other than a pilot school certificated under GACAR Part 141 must apply for approval in a form and manner specified by the President. Following satisfactory review of the applicant's request and inspection of the ATD for which approval is sought, the President will issue a letter of approval to the applicant.
 - (2) A pilot school certificated under GACAR Part 141 must describe, in each training course approved by the President in which an ATD is to be used, the training to be administered using the ATD.
- (b) Any person seeking approval to use an ATD for pilot training, obtaining flight experience, or maintaining currency requirements for pilot certification or qualification under the GACAR must—
- (1) Have the following documents readily available for inspection by the student and

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instructor:

- (i) A list of the ATD components,
 - (ii) A copy of the letter of approval issued to the manufacturer as noted in GACAR § 60.67(a), and
 - (iii) A copy of the manufacturer’s Qualification and Approval Guide for the ATD being used.
- (2) Demonstrate that the ATD is able to—
- (i) Provide training in all elements in which it will be used;
 - (ii) Successfully pass a start-up self-test of control inputs by the computer and software; and
 - (iii) Remain in the approved configuration during the training session.

§ 60.71 Modification of an Approved ATD.

- (a) Except as provided in paragraph (b) of this section, an operator who modifies an approved ATD must submit notice of the modification in a form and manner prescribed by the President.
- (b) The notice requirements in paragraph (a) of this section do not apply to changes that have minimal effect on the functional capability of the ATD.
- (c) The President may withdraw his approval for use of the ATD upon finding that the modification makes a material change affecting the functional capability of the ATD.