

AFS-205 FEDERAL AVIATION ADMINISTRATION NATIONAL SIMULATOR PROGRAM

Flight Simulation Training Device Qualification Guidance

Flight Simulator Airport Simulation Requirements - FSTD Directive #1 FSTD Guidance Bulletin 03-01

Background: Full flight simulators (FFS) require the installation of a visual system that is capable of providing an out-of-the-flight-deck view of visual scenes or airport models. To be qualified, each FFS must have available for use a minimum number of visual scenes or airport models that have certain features. Additional scenes or models beyond those necessary for qualification may also be used for various training program applications, including Line Oriented Flight Training. Historically these additional visual scenes or airport models were not routinely evaluated or required to meet any standardized criteria. This has led to a possibility for qualified simulators containing visual scenes or airport models being used to meet FAA-approved training, testing, or checking requirements with potentially incorrect or inappropriate visual references.

Present Status: To prevent the above from happening, FSTD Directive (FD) #1 will become effective, coincident with the final rule, Part 60, on May 30, 2008. The FD requires that, except for the airport model(s) used to qualify the simulator at the designated level (which are referred to as Class I airport models), by May 30, 2009, each airport model used by the certificate holder's instructors or evaluators for training, checking, or testing under Chapter I of Title 14, Code of Federal Regulations, in an FFS, must meet the definition of a Class II or Class III airport model as defined in 14CFR part 60. **The FD applies to all FSTD's with visual systems containing visual scenes or airport models used as part of an FAA-approved curriculum regardless of qualification level, qualification criteria or date of qualification.** The FD does not, however, require visual scenes or airport models to contain details beyond the inherent designed capability of a visual system as originally qualified. Recognized limitations of such specific visual systems are outlined in the FD.

For more information see the following:

14 CFR Part 60, Appendix A or C, Attachment 6 or Attachment 5 as applicable for FD #1

14 CFR Part 60, Appendix A or C, Attachment 3, QPS Requirements, Tables A3B & A3C or C3B & C3C as applicable for Visual Scene Requirements

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