

Federal Aviation Administration
Aviation Rulemaking Advisory Committee

Noise Certification Issue Area
Subsonic Transport Category Large Airplanes and Subsonic Turbojet Powered Airplanes
FAR/JAR Harmonization Working Group

Task 1 – Review Subpart A-B-C-D

Aviation Rulemaking Advisory Committee

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of establishment of FAR/JAR Harmonization Working Group for Subsonic Transport Category Large Airplanes and Subsonic Turbojet Powered Airplanes.

SUMMARY: Notice is given of the establishment of a FAR/JAR Harmonization Working Group for Subsonic Transport Category Large Airplanes and Subsonic Turbojet Powered Airplanes for the FAA Aviation Rulemaking Advisory Committee (ARAC). This notice informs the public of the activities of the ARAC on noise certification issues.

FOR FURTHER INFORMATION CONTACT: Mr. Paul R. Dykeman, Assistant Executive Director for Noise Certification, Deputy Director, Office of Environment and Energy (AEE-2), 800 Independence Avenue, SW., Washington, DC 20591, Telephone: (202) 267-3577; FAX: (202) 267-5594.

SUPPLEMENTARY INFORMATION: The Federal Aviation Administration (FAA) established an Aviation Rulemaking Advisory Committee (ARAC) (56 FR 2190, January 22, 1991; and 58 FR 9230, February 19, 1993). One area of the ARAC deals with noise certification issues. These issues involve the harmonization of part 36 of the Federal Aviation Regulations (14 CFR part 36) with Joint Aviation Requirements (JAR) part 36, their associated guidance material including equivalent procedures, and the interpretation of the regulations. The FAR/JAR Harmonization Working Group for Subsonic Transport Category Large Airplanes and Subsonic Turbojet Powered Airplanes will forward recommendations to the ARAC, which will determine whether to forward them to the FAA.

Specifically, the FAR/JAR Harmonization Working Group for Subsonic Transport Category Large Airplanes and Subsonic Turbojet Powered Airplanes is charged with reviewing the applicable provisions of subparts A, B, C, and D, and appendices A, B, and C of the 14 CFR part 36 and

harmonizing them with the corresponding applicable provision of JAR 36.

ARAC should consider the current international standards and recommended practices, as issued under the International Civil Aviation Organization (ICAO), Annex 16, Volume 1, and its associated Technical Manual, as the basis for development of these harmonization proposals. ARAC should also consider recommending a process whereby subsequent ICAO Annex 16 changes are properly incorporated in JAR and FAR 36.

If the ARAC determines that a Notice of Proposed Rulemaking (NPRM), an Advisory Circular (AC), or both would be appropriate, those documents are to be submitted, in the format prescribed, to the FAA. The Working Group should make recommendations to the ARAC in the following manner.

Reports

(a) Recommend a work plan for completion of the task and subtasks, including the rationale supporting the plan, for consideration at the meeting of the ARAC to consider noise certification issues held following publication of this notice;

(b) Give a detailed conceptual presentation on the proposed recommendation to the ARAC before proceeding with the work stated in item (c) below;

(c) If considered appropriate, develop NPRM(s) proposing the revised rules for aircraft noise certification, a supporting economic and other required analyses, advisory and guidance material, and any other collateral documents the Working Group determines to be needed. Present these recommendations to the ARAC for further consideration and disposition; and

(d) Give a status report on the task at each meeting of the ARAC held to consider noise certification issues.

The FAR/JAR Harmonization Working Group for Subsonic Transport Category Large Airplanes and Subsonic Turbojet Powered Airplanes will be comprised of experts from those organizations having an interest in the tasks assigned. A Working Group member need not necessarily be a representative of one of the organizations of the ARAC. Individuals who have expertise in the subject matter and wish to become a member of the Working Group should write the person listed under the caption, **FOR FURTHER INFORMATION CONTACT**, expressing that desire, describing their interest in the task, and the expertise they would bring to the working group. The request will be reviewed by the ARAC Assistant Chair

for Noise Certification and the Chair of the Working Group, and the individual will be advised if the request can be granted.

The Secretary of Transportation has determined that the formation and use of the ARAC are necessary and in the public interest, in connection with the performance of duties of the FAA. Meetings of the ARAC to consider noise certification issues will be open to the public, except as authorized by Section 10(d) of the Federal Advisory Committee Act. Meetings of the FAR/JAR Harmonization Working Group for Subsonic Transport Category Large Airplanes and Subsonic Turbojet Powered Airplanes will not be open to the public, except to the extent that individuals with an interest and expertise are selected to participate. No public announcement of Working Group meetings will be made.

Issued in Washington, DC, on April 25, 1994.

Paul R. Dykeman,

Assistant Executive Director for Noise Certification, Aviation Rulemaking Advisory Committee.

[FR Doc. 94-10575 Filed 5-2-94; 8:45 am]

BILLING CODE 4810-13-M



U.S. Department
of Transportation
**Federal Aviation
Administration**

800 Independence Ave., S.W.
Washington, D.C. 20591

SEP 20 1995

Mr. David Hilton
Gulfstream Aerospace Corporation
P.O. Box 2206, M/S D-04
Savannah, GA 31402-2206

Dear Mr. Hilton:

The Federal Aviation Administration (FAA) tasked the Aviation Rulemaking Advisory Committee (ARAC) with the following:

Review all applicable provisions of subparts A and F, and appendices F and G of the 14 Code of Federal Regulations (CFR) part 36 and harmonize them with the corresponding applicable provisions of the Joint Aviation Requirements (JAR) 36; review all applicable provisions of subparts A, B, and D, and appendices A, B, and C of the 14 CFR part 36 and harmonize them with the corresponding applicable provision of JAR 36; and review the applicable provisions of subparts A and H, and appendices H and J of the 14 CFR part 36 and harmonize them with the corresponding applicable provisions of JAR 36.

In conducting these reviews the FAA requested that ARAC consider:

Current international standards and recommended practices, as issued under the International Civil Aviation Organization (ICAO), Annex 16, Volume 1, and its associated Technical Manual, as the basis for development of these harmonization proposals; developing a process whereby subsequent ICAO Annex 16 changes are properly incorporated into JAR and Federal Aviation Regulations 36.

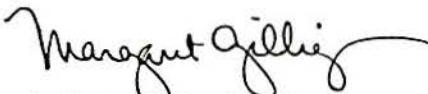
The ARAC tasked three working groups to review and develop recommendations with respect to these tasks.

After further consideration, the FAA agrees with your position that each of the three tasks should include a review of the acoustical change provisions of the

14 CFR part 21, subpart D. Any recommendation on noise issues should consider harmonization with respect to corresponding JAR to the extent practicable. The FAA recommends that any proposed recommendations be coordinated among the other working groups to ensure consistency in proposed regulatory language, advisory and guidance material, and any other collateral documents developed by these working groups.

The FAA will publish revised task statements in the Federal Register.

Sincerely,


for Anthony J. Broderick
Associate Administrator for
Regulation and Certification

One area of the ARAC deals with noise certification issues. These issues involve the harmonization of part 36 of the Federal Aviation Regulations (14 CFR part 36) with Joint Aviation Requirements (JAR) part 36, their associated guidance material including equivalent procedures, and the interpretation of the regulations. The FAR/JAR Harmonization Working Group for Propeller-Driven Small Airplanes will forward recommendations to the ARAC, which will determine whether to forward them to the FAA.

The Revised Task

This notice is to inform the public that the FAA has revised a task previously assigned to ARAC. The revised task has been accepted by ARAC. The FAA has asked ARAC to provide advice and recommendation on the following revised task:

Specifically, the FAR/JAR Harmonization Working Group for Propeller-Driven Small Airplanes is charged with reviewing the applicable provisions of subparts A and F and appendices F and G of the 14 CFR part 36 and harmonizing them with the corresponding applicable provisions of JAR 36. The review should also include a review of the acoustical change provisions of the 14 CFR 21 subpart D. Any recommendation on noise issues should consider harmonization with respect to corresponding JAR to the extent practicable. The FAA recommends that any proposed recommendations be coordinated among other working groups to ensure consistency in proposed regulatory language, advisory and guidance material, and any other collateral documents developed by the working groups.

ARAC should consider the current international standards and recommended practices, as issued under the International Civil Aviation Organization (ICAO), Annex 16, Volume 1, and its associated Technical Manual, as the basis for development of these harmonization proposals. ARAC should also consider recommending a process whereby subsequent ICAO Annex 16 changes are properly incorporated into JAR and FAR 36.

ARAC Acceptance of Revised Task

ARAC has accepted the revised task and has chosen to assign it to the FAR/JAR Harmonization Working Group for Propeller-Driven Small Airplanes. The working group will serve as staff to ARAC to assist ARAC in the analysis of the assigned task. Working group recommendations must be reviewed and

approved by ARAC. If ARAC accepts the working group's recommendations, it forwards them to the FAA as ARAC recommendations.

Working Group Activities

The FAR/JAR Harmonization Working Group for Propeller-Driven Small Airplanes is expected to comply with the procedures adopted by ARAC. As part of the procedures, the working group is expected to:

(a) Recommend a work plans for completion of the task and subtasks, including the rationale supporting the plan, for consideration at the meeting of the ARAC to consider noise certification issues held following publication of this notice;

(b) Give a detailed conceptual presentation on the proposed recommendation to the ARAC before proceeding with the work stated in item (c) below;

(c) If considered appropriate, develop NPRM(s) proposing the revised rules for aircraft noise certification, a supporting economic and other required analyses, advisory and guidance materials, and any other collateral documents the Working Group determines to be needed. Present these recommendations to the ARAC for further consideration and disposition; and

(d) Give a status report on the task at each meeting of the ARAC held to consider noise certification issues.

The Secretary of Transportation has determined that the formation and use of the ARAC are necessary and in the public interest, in connection with the performance of duties of the FAA. Meetings of the ARAC to consider noise certification issues will be open to the public, except as authorized by Section 10(d) of the Federal Advisory Committee Act. Meetings of the FAR/JAR Harmonization Working Group for Propeller-Driven Small Airplanes will not be open to the public, except to the extent that individuals with an interest and expertise are selected to participate. No public announcement of Working Group meetings will be made.

Issued in Washington, DC, on October 10, 1995.

Paul R. Dykeman,

Assistant Executive Director for Noise Certification, Aviation Rulemaking Advisory Committee.

[FR Doc. 95-25679 Filed 10-16-95; 8:45 am]

BILLING CODE 4910-13-M

Aviation Rulemaking Advisory Committee; Noise Certification Issues—Revised Task

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of revised task assignment for the Aviation Rulemaking Advisory Committee.

SUMMARY: Notice is given of a change in the task assigned to and accepted by the Aviation Rulemaking Advisory Committee (ARAC). This notice informs the public of the activities of the ARAC.

FOR FURTHER INFORMATION CONTACT: Mr. Paul R. Dykeman, Assistant Executive Director for Noise Certification, Deputy Director, Office of Environment and Energy (AEE-2), 800 Independence Avenue, SW., Washington, DC 20591, Telephone (202) 267-3577; FAX: (202) 267-5594.

SUPPLEMENTARY INFORMATION: The Federal Aviation Administration (FAA) established an Aviation Rulemaking Advisory Committee (ARAC) (56 FR 2190, January 22, 1991; and 58 FR 9230, February 19, 1993) to provide advice and recommendations to the FAA Administrator, through the Associate Administrator for Regulation and Certification, on the full range of the FAA's rulemaking activities with respect to aviation-related issues. This includes obtaining advice and recommendations on the FAA's commitment to harmonize its Federal Aviation Regulations (FAR) and practices with its trading partners in Europe and Canada.

July 15, 1998

From: Aviation Rulemaking Advisory Committee (ARAC)
Assistant Chair for Noise Certification Issues

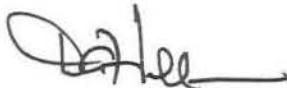
To: Director of Rulemaking, ARM-1

Subject: Noise Certification Standards for Subsonic Transport Category Large Airplanes
and Subsonic Turbojet Powered Airplanes

I am pleased to report that the Subsonic Transport Category Large Airplanes and Subsonic Turbojet Powered Airplanes working group presented an initial draft Notice of Proposed Rulemaking (NPRM) for 14 CFR Part 36 to the ARAC Noise Certification Issues Group on July 15, 1998. The ARAC's Noise Certification Issue Group accepted this initial draft as written. This initial draft of the proposed NPRM only affects noise certification standards for Subsonic Transport Category Large Airplanes and Subsonic Turbojet Powered Airplanes.

There were 96 differences identified and addressed by the working group. This draft includes 20 substantive technical changes to part 36, and numerous word and format changes to part 36 that do not change technical meaning. These word and format changes were made to more closely align part 36 with ICAO Annex 16, the document recommended to ARAC for consideration as the basis for development of the harmonization proposals. There are 11 differences remaining that will be discussed by the working group at its September 1998 meeting.

This initial draft is being forwarded for the FAA to start its economic and legal review.



D. A. Hilton

Attachment

Copy to: Chairman, Aviation Rulemaking Advisory Committee
ARAC Assistant Executive Director for Noise Certification Issues



U.S. Department
of Transportation
**Federal Aviation
Administration**

800 Independence Ave., S.W.
Washington, D.C. 20591

SEP 11 1998

Mr. David A. Hilton
Aviation Rulemaking Advisory Committee
General Aviation Manufacturers Association
500 Gulfstream Road
Savannah, GA 31402

Dear Mr. Hilton:

This is to acknowledge your July 15 letter in which you requested formal legal and economic review for the Subsonic Transport Category Large Airplanes and Subsonic Turbojet Powered Airplanes notice of proposed rulemaking (NPRM).

Copies of the draft NPRM have been forwarded to the Office of Aviation Policy and Plans and the Office of the Chief Counsel. The expected completion date for the economic analysis is October 31, 1998. That date is contingent on the resolution of the remaining issues at the September working group meeting. If all issues are not resolved at the meeting and if substantive changes are required as a result of the issues the completion date for the economic analysis may be affected. The legal review will be completed 30 days after the economic analysis is completed.

Thank you for the time and continued support that the aviation community provides through the Aviation Rulemaking Advisory Committee.

Sincerely,


Joseph A. Hawkins
Director, Office of Rulemaking

May 18, 2000

Mr. Tom McSweeney
Associate Administrator
for Regulation & Certification
Federal Aviation Administration (FAA)
800 Independence Avenue, SW
Washington, DC 20591

Dear Associate Administrator McSweeney:

I am pleased to report that the Subsonic Transport Category Large Airplanes and Subsonic Turbojet Powered Airplanes working group presented their proposed recommendation for 14 CFR part 36 to the ARAC Noise Certification Issues Group on May 18, 2000. The recommendation includes an NPRM and economic evaluation that has had legal review.

This ARAC issue group accepted this NPRM as written, and I am forwarding this NPRM to the FAA for review, concurrence and publication. The Noise Certification Issue group appreciates the opportunity to participate in the FAA regulatory process.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Hilton', with a long horizontal stroke extending to the right.

David Hilton
Assistant Chairman Noise Certification
Issues group

Attachment



Federal Register

**Friday,
August 5, 2005**

Part IV

Department of Transportation

Federal Aviation Administration

14 CFR Part 36

**Harmonization of Noise Certification
Standards for Propeller-Driven Small
Airplanes; Final Rule**

DEPARTMENT OF TRANSPORTATION**Federal Aviation Administration****14 CFR Part 36**

[Docket No.: FAA-2003-15279; Amendment No. 36-27]

RIN 2120-AI25

Harmonization of Noise Certification Standards for Propeller-Driven Small Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: This final rule amends FAA regulations regarding airplane noise certification standards. These changes are necessary to harmonize two technical items with international standards and provide uniform noise certification standards for airplanes certificated in the United States and Joint Aviation Authorities (JAA) countries. This amendment will simplify airworthiness approvals for import and export purposes. We anticipate that the changes to these two items will apply only to a small number of older-technology airplanes.

DATES: This amendment becomes effective September 6, 2005.

FOR FURTHER INFORMATION CONTACT: Mehmet Marsan, Office of Environment and Energy, AEE-100, Federal Aviation Administration, 800 Independence Avenue SW., Washington, DC 20591; telephone (202) 267-7703; facsimile (202) 267-5594, e-mail mehmet.marsan@faa.gov.

SUPPLEMENTARY INFORMATION:

Availability of Rulemaking Documents

You can get an electronic copy using the Internet by:

(1) Searching the Department of Transportation's electronic Docket Management System (DMS) web page (<http://dms.dot.gov/search>);

(2) Visiting the FAA's web page at <http://www.faa.gov>; or

(3) Accessing the Government Printing Office's web page at http://www.access.gpo.gov/su_docs/aces/aces140.html.

You can also get a copy by sending a request to the Federal Aviation Administration, Office of Rulemaking, ARM-1, 800 Independence Avenue SW., Washington, DC 20591, or by calling (202) 267-9680. Make sure to identify the amendment number or docket number of this rulemaking.

Anyone is able to search the electronic form of all comments received into any of our dockets by the

name of the individual submitting the comment (or signing the comment, if submitted on behalf of an association, business, labor union, etc.). You may review DOT's complete Privacy Act statement in the **Federal Register** published on April 11, 2000 (Volume 65, Number 70; Pages 19477-78) or you may visit <http://dms.dot.gov>.

Small Business Regulatory Enforcement Fairness Act

The Small Business Regulatory Enforcement Fairness Act (SBREFA) of 1996 requires FAA to comply with small entity requests for information or advice about compliance with statutes and regulations within its jurisdiction. If you are a small entity and you have a question regarding this document, you may contact your local FAA official, or the person listed under **FOR FURTHER INFORMATION CONTACT**. You can find out more about SBREFA on the Internet at <http://www.faa.gov/avr/arm/sbrefa.cfm>.

Authority for This Rulemaking

The FAA's authority to issue rules regarding aviation safety is found in Title 49 of the United States Code. Subtitle I, Section 106 describes the authority of the FAA Administrator. Subtitle VII, Aviation Programs, describes in more detail the scope of the agency's authority.

This rulemaking is promulgated under the authority described in Subtitle VII, Part A, Air Commerce and Safety, Section 44715, Controlling aircraft noise and sonic boom. Under that section, the Administrator of the FAA is charged with prescribing standards to measure aircraft noise and sonic boom and prescribing the regulations to control and abate aircraft noise and sonic boom. This regulation is within the scope of that authority because Title 14 part 36 of the Code of Federal Regulations (CFR) contains the FAA's noise standards and regulations that apply to the issuance of type certificates for all types of aircraft.

Background

This final rule completes the FAA's efforts to harmonize the regulations of 14 CFR Part 36 Appendix G, with International Civil Aviation Organization (ICAO) Annex 16, Volume I, Chapter 10, regarding propeller-driven small airplane noise certification. The FAA proposed these changes in the notice of proposed rulemaking (NPRM), "Harmonization of Noise Certification Standards for Propeller-Driven Small Airplanes" (68 FR 34256), published on June 6, 2003. In the NPRM, you will find a discussion of the current requirements and why they do not

adequately address the noise certification standards for airplanes in keeping with U.S. obligations under the Convention on International Civil Aviation. In the NPRM, we also refer to the studies and reports we relied on in developing the proposed rule, and discuss each alternative that we considered and the reasons for rejecting the ones we did not propose.

The background material in the NPRM also contains the basis and rationale for these requirements and, except where we have specifically expanded on the background elsewhere in this preamble, supports this final rule. Discussions regarding the intent of the requirements may refer to the background in the NPRM without repeating it in this document.

History

Under 49 U.S.C. 44715, the Administrator of the FAA is directed to prescribe "standards to measure aircraft noise and sonic boom; * * * and regulations to control and abate aircraft noise and sonic boom." On October 13, 1999, the FAA published a final rule (64 FR 55598) adopting noise certification standards for propeller-driven small airplanes. That rule, which harmonized the U.S. noise certification regulations with the European Joint Aviation Requirements (JAR) for propeller-driven small airplanes, resulted from a joint effort of the FAA, the JAA, and the Aviation Rulemaking Advisory Committee (ARAC). However, two technical items contained in Appendix G to Part 36 remained unharmonized with ICAO Annex 16, Volume I, Chapter 10. These two items were not harmonized at that time because the effect on exported older airplanes was not known. The two unharmonized items are as follows:

(1) Appendix G, section G34.111 allows the use of "maximum continuous power" during the second segment of the noise certification test flight path. Annex 16, Chapter 10, Section 10.5.2 defines "power" for the second segment as "maximum power." Since "maximum continuous power" is typically lower than "maximum power" or "takeoff power," as described in ICAO, this is considered unharmonized.

(2) Appendix G, section G36.201 specifies a simplified data correction procedure for fixed-pitch type propellers if the engine test power is within 5 percent of the reference power. However, ICAO Annex 16, Volume I, Chapter 10 does not have a corresponding simplified data correction procedure.

In keeping with U.S. obligations, it is the FAA's policy to comply with ICAO

Standards and Recommended Practices to the maximum extent practicable. The FAA is revising part 36 to make the requirements the same as the propeller-driven small airplane noise certification regulations of Annex 16, Volume I, Chapter 10. The Annex 16 version better represents the intent of the original noise certification standards, which was to certify propeller-driven small airplanes at takeoff power. This final rule completes the FAA's efforts to harmonize part 36 Appendix G and Annex 16.

Related Activity

The European Aviation Safety Agency (EASA) was established July 15, 2002, and assumed authority to conduct certification of aircraft, engines and parts on September 28, 2003. The EASA will eventually absorb all JAA functions and activities, including the JAA's rulemaking harmonization activities. Since this rulemaking action is a result of FAA/JAA harmonization efforts, we anticipate that it will be incorporated into the EASA's requirements as well.

Discussion of Comments

The FAA received comments from three commenters on the proposed rule. All three commenters oppose the adoption of this final rule. However, as discussed below, we made no changes to the rule based on these comments.

Comment: One commenter disagreed with the statement in the summary section of the NPRM that states that the revisions to these two unharmonized technical items would apply only to a small number of older-technology airplanes. The commenter states that the majority of the world's small airplanes are based in the United States, and believes that all of these airplanes are potential candidates for retrofit.

FAA reply: While the U.S. small airplane fleet is large, the FAA has no information to suggest that a significant number of airplanes are candidates for engine or propeller retrofits. The FAA believes the only airplanes that would be affected are those undergoing a voluntary retrofit that have time-limited engines; based on past experience this is a very small number. Further, among the airplanes that are retrofitted, compliance with this part 36 amendment would only be required if the retrofit results in an acoustical change. Section 21.93(b) defines acoustical change as any voluntary change in type design of an aircraft that may increase the noise level of an aircraft.

Comment: Two commenters state that it would be detrimental to the safe operation of airplanes if they cannot be

noise certificated at engine power levels lower than takeoff power.

FAA reply: The FAA disagrees that it would be unsafe for airplanes to operate at an engine power level lower than takeoff power. The FAA believes the commenters fear losing the operational performance level between maximum continuous power and takeoff power, because they often operate in that range, but do noise certification at the maximum continuous power level. The FAA is not advocating operation at an unsafe power level, only that noise certification should not be conducted at a level consistently lower than the usual operating power. The rule is being changed to harmonize the standards and close this loophole, which does not exist under ICAO Annex 16. Operators will still have the option of maintaining takeoff power and rpm for as long as the airplane's airworthiness limitations permit, after which maximum continuous power and rpm must be maintained.

Comment: One commenter states that, in the background section of the NPRM, the FAA discussed the 14 CFR Part 36 amendments, but did not discuss any of the recent power testing changes made in ICAO Annex 16 Chapter 10. The commenter states that in June 2000, the JAA approved a small airplane of European design, manufacture, and certification, using a maximum-continuous power rating. This would mean that the European authorities were not complying with their own regulations at that time.

FAA reply: All JAA countries use ICAO Annex 16, Volume I as their environmental standard. Individual JAA member countries may file differences with ICAO from Volume I, and these differences are listed in Volume I. Germany was the only JAA member country that filed differences with the ICAO on defining power during testing. Our understanding is that Germany recently realized it would be the only country not harmonized on this standard and changed its rule to remove the difference with ICAO Annex 16. At present, there are no differences in defining power during testing.

Paperwork Reduction Act

Under the provisions of the Paperwork Reduction Act of 1995, there are no current or new requirements for information collection associated with this final rule.

International Compatibility

In keeping with U.S. obligations under the Convention on International Civil Aviation, it is FAA policy to comply with ICAO Standards and

Recommended Practices to the maximum extent practicable. The FAA has reviewed the corresponding ICAO Standards and Recommended Practices and has identified no differences with these regulations other than those directly addressed by the rule change.

Executive Order 12866 and DOT Regulatory Policies and Procedures

Proposed changes to Federal regulations must undergo several economic analyses. First, Executive Order 12866 directs that each Federal agency shall propose or adopt a regulation only upon a reasoned determination that the benefits of the intended regulation justify its costs. Second, the Regulatory Flexibility Act of 1980 requires agencies to analyze the economic impact of regulatory changes on small entities. Third, the Trade Agreements Act (19 U.S.C. 2531–2533) prohibits agencies from setting standards that create unnecessary obstacles to the foreign commerce of the United States. In developing U.S. standards, this Trade Act requires agencies to consider international standards and, where appropriate, that they be the basis for U.S. standards. Fourth, the Unfunded Mandates Reform Act of 1995 (Pub. L. 104–4) requires agencies to prepare a written assessment of the costs, benefits, and other effects of proposed or final rules that include a Federal mandate likely to result in the expenditure by State, local, or tribal governments, in the aggregate, or by the private sector, of \$100 million or more annually (adjusted for inflation).

The Department of Transportation Order DOT 2100.5 prescribes policies and procedures for simplification, analysis, and review of regulations. If it is determined that the expected cost impact is so minimal that a rulemaking does not warrant a full evaluation, this order permits a statement to that effect along with the basis for that determination to be in the preamble. In this case, a full regulatory evaluation cost benefit evaluation need not be prepared. Such a determination has been made for this rule. The reasoning for that determination follows.

The FAA has determined that this rule will increase the harmonization of the U.S. Federal regulations with the ICAO Standards and Recommended Practices and will impose, at most, negligible costs. Because the costs and benefits of this action do not make it a "significant regulatory action" as defined in the Order, we have not prepared a "regulatory impact analysis." Similarly, we have not prepared a full "regulatory evaluation," which is the written cost/benefit analysis ordinarily

required for all rulemaking under the DOT Regulatory and Policies and Procedures. We do not need to do a full evaluation where the economic impact of a rule is minimal.

Regulatory Flexibility Determination

The Regulatory Flexibility Act of 1980 (RFA) establishes "as a principle of regulatory issuance that agencies shall endeavor, consistent with the objective of the rule and of applicable statutes, to fit regulatory and informational requirements to the scale of the business, organizations, and governmental jurisdictions subject to the regulation." To achieve that principle, the RFA requires agencies to solicit and consider flexible regulatory proposals and to explain the rationale for their actions. The RFA covers a wide-range of small entities, including small business, not-for-profit organizations and small governmental jurisdictions.

Agencies must perform a review to determine whether a proposed or final rule will have a significant economic impact on a substantial number of small entities. If the agency determines that it will, the agency must prepare a regulatory flexibility analysis as described in the RFA.

However, if an agency determines that a proposed or final rule is not expected to have a significant economic impact on a substantial number of small entities, section 605(b) of the RFA provides that the head of the agency may so certify and a regulatory flexibility analysis is not required. The certification must include a statement providing the factual basis for this determination, and the reasoning should be clear.

This final rule revises two technical items, which are the only remaining unharmonized items between part 36 Appendix G and the ICAO Annex 16, Volume I, Chapter 10, regarding the noise certification of small propeller-driven airplanes. Our assessment of this rulemaking indicates that its economic impact is minimal because these two items affect only airplanes with older-technology engines that are not required to undergo new noise certification, or are already noise certificated. Therefore, we certify that this action will not have a significant economic impact on a substantial number of small entities.

Trade Impact Assessment

The Trade Agreements Act of 1979 prohibits Federal agencies from establishing any standards or engaging in related activities that create unnecessary obstacles to the foreign commerce of the United States.

Legitimate domestic objectives, such as safety, are not considered unnecessary obstacles. The statute also requires consideration of international standards and, where appropriate, that they be the basis for U.S. standards. The FAA has assessed the potential effect of this rulemaking and has determined that it will impose the same minimal costs on domestic and international entities and thus have a neutral trade impact.

Unfunded Mandates Assessment

The Unfunded Mandates Reform Act of 1995 (the Act) is intended, among other things, to curb the practice of imposing unfunded Federal mandates on State, local, and tribal governments. Title II of the Act requires each Federal agency to prepare a written statement assessing the effects of any Federal mandate in a proposed or final agency rule that may result in an expenditure of \$100 million or more (adjusted annually for inflation) in any one year by State, local, and tribal governments, in the aggregate, or by the private sector; such a mandate is deemed to be a "significant regulatory action." The FAA currently uses an inflation-adjusted value of \$120.7 million in lieu of \$100 million.

This final rule does not contain such a mandate. The requirements of Title II do not apply.

Executive Order 13132, Federalism

The FAA has analyzed this final rule under the principles and criteria of Executive Order 13132, Federalism. We have determined that this action will not have a substantial direct effect on the States, or the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government, and therefore does not have federalism implications.

Environmental Analysis

In accordance with FAA Order 1050.1E, the FAA has determined that this action is categorically excluded from environmental review under section 102(2)(c) of the National Environmental Policy Act (NEPA). This action is categorically excluded under FAA Order 1050.1E, Chapter 3, Paragraph 312f, which covers regulations "excluding those which if implemented may cause a significant impact on the human environment." It qualifies for a categorical exclusion because no significant impacts to the environment are expected to result from its finalization or implementation and no extraordinary circumstances exist as prescribed under Chapter 3, paragraph 304 of Order 1050.1E.

Regulations That Significantly Affect Energy Supply, Distribution, or Use

The FAA has analyzed this rulemaking action under Executive Order 13211, Actions Concerning Regulations that Significantly Affect Energy Supply, Distribution, or Use (May 18, 2001). We have determined that it is not a "significant energy action" under the executive order because it is not a "significant regulatory action" under Executive Order 12866, and it is not likely to have a significant adverse effect on the supply, distribution, or use of energy.

List of Subjects in 14 CFR Part 36

Aircraft, Noise control.

The Amendment

■ In consideration of the foregoing, the Federal Aviation Administration amends Chapter I of Title 14, Code of Federal Regulations as follows:

PART 36—NOISE STANDARDS: AIRCRAFT TYPE AND AIRWORTHINESS CERTIFICATION

■ 1. The authority citation for part 36 continues to read as follows:

Authority: 42 U.S.C. 4321 *et seq.* 49 U.S.C. 106(g), 40113, 44701–44702, 44704, 44715, sec. 305, Pub. L. 96–193, 94 Stat. 50, 57; E.O. 11514, 35 FR 4247, 3 CFR, 1966–1970 Comp., p. 902.

■ 2. Amend Appendix G to part 36 by revising section G36.111(c)(2)(iv) to read as follows:

Appendix G to Part 36—Takeoff Noise Requirements for Propeller-Driven Small Airplane and Propeller-Driven, Commuter Category Airplane Certification Tests on or After December 22, 1988

Sec. G36.111 Flight Procedures

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(c) * * *

(2) * * *

(iv) For airplanes equipped with fixed pitch propellers, takeoff power must be maintained throughout the second segment. For airplanes equipped with variable pitch or constant speed propellers, takeoff power and rpm must be maintained throughout the second segment. If airworthiness limitations do not allow the application of takeoff power and rpm up to the reference point, then takeoff power and rpm must be maintained for as long as is permitted by such limitations; thereafter, maximum continuous power and rpm must be maintained. Maximum time allowed at takeoff power under the airworthiness standards must be used in the second segment. The reference height must be calculated assuming climb gradients appropriate to each power setting used.

■ 3. Amend Appendix G to part 36 by revising section G36.201(c) to read as follows:

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(c) No corrections for helical tip Mach number variation need to be made if the propeller helical tip Mach number is:

(1) At or below 0.70 and the test helical tip Mach number is within 0.014 of the reference helical tip Mach number.

(2) Above 0.70 and at or below 0.80 and the test helical tip Mach number is within 0.007 of the reference helical tip Mach number.

(3) Above 0.80 and the test helical tip Mach number is within 0.005 of the reference helical tip Mach number. For mechanical tachometers, if the helical tip Mach number is above 0.8 and the test helical tip Mach

number is within 0.008 of the reference helical tip Mach number.

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Administrator.

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