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CHIEF COUNSEL  
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Sender: DU-CLUZEL\_Cecile@sfact.dgac.fr

To: 9-NPRM-CMTS

cc: MARCOU\_Bernard@sfact.dgac.fr; LEPOUTRE\_Philippe@sfact.dgac.fr;  
VELLA\_Alain@sfact.dgac.fr

Priority: Normal

Receipt requested

Subject: 14 CFR Part 36 [Docket No. FAA-1998-4731 ; Notice No. 98-16]

Please find below two comments from the French DGAC (Direction  
Generale

de l'Aviation Civile) - SFACT (Airmen and aircraft rulemaking division)  
on the following NPRM on Appendix G of part 36 :

14 CFR Part 36

[Docket No. FAA-1998-4731 ; Notice No. 98-16]

RIN 2120-AG65

"Noise Certification Standards for  
Propeller-Driven Small Airplanes"

1- Section G36.107 (Noise Measurement Procedures), ? (a) :

COMMENT :

line # 4 : replace "0.7 mm" by "7 mm",

so that the sentence reads : "[...] such that the  
microphone diaphragm is 7 mm above and parallel to  
a white-painted metal circular plate."

REASON FOR COMMENT :

The purpose of this NPRM is to harmonize with ICAO Annex 16 and  
JAR 36. "7 mm" is the figure used in ? 4.4 of Appendix 6 of  
Annex 16, vol. 1, as well as in ? 4.4 of Appendix B of JAR 36.

2- Section G36.201 (Corrections to Test Results), ? (d) (1) :

COMMENT :

line # 5 : In the equation, replace "0.7" by "0.6",

so that the equation reads :  
"Delta (M) = (Ht alpha - 0.6 Hr) / 1000"

REASON FOR COMMENT :

The purpose of this NPRM is to harmonize with ICAO Annex 16,  
Chapter 10 and JAR 36.

The equation used in both ? 5.2.1 of Appendix 6 of Annex 16 and ?  
5.2.1 of Appendix B of JAR 36 is :

"Delta (M) = 0.01 (Ht alpha - 0.2 Hr)",

where Ht and Hr are in meters  
and alpha is in Db/100m.

If in your equation Ht and Hr are in feet  
and alpha is in Db/1000ft (as specified in SAE ARP 866A),  
and if you use the standard conversion of 1 ft = 0.3048006 m,

the equation becomes :

"Delta (M) = 0.01 (0.1 Ht alpha - 0.2 \* 0.3048006 Hr)"

that is to say :

"Delta(M)=0.01(0.1 Ht alpha - 0.0609601 Hr)"  
that is to say :

"Delta(M)=(Ht alpha - 0.6 Hr)/1000"  
where Ht and Hr are in feet  
and alpha is in Db/1000ft,

which has the other advantage of being closer to the figures  
contained in the relevant tables in SAE ARP 866A...