

DOCUMENT REVIEW LOG

1. Document No.: AC 33-2C: General Type certification Guidelines for Turbine Engines		2. Project Lead: Judith Watson, ANE-111		3. Reviewing Office: AIR-500		4. Date of Review: 3/15/11		5. [reserved]	
6. #	7. Page and Paragraph No.:	8. Comment:	9. Reason For Comment:	10. Suggested Change:		11. [reserved]			
1.	Global Change	Improper capitalization.		Remove the capitalization from all the letters within the title of the paragraphs if you are going to use bold. The usage of bold and capitalization causes the title to become over emphasized.		Done			
2.	Global Change	Incorrect formatting.		The lines should be single spaced, not double-spaced throughout the document.		Done (was set up as a draft.)			
3.	Global Change	The term "type certificate data sheet" has already been defined.		Use the acronym "TCDS" after the first usage.		Done			
4.	Global Change	Missing header.		Place the date (place holder for date) in the top left-hand corner and AC number in the top right-hand corner of the document on each page.		Will do when ready to issue			

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5.	Global Change	Define "type certificate" at first usage, then use the acronym thereafter.							Done
6.	Global Change	Footer font.			Use Times New Roman, 11pt. in the footer.				Done (where is the standard for this)
7.	Global Change	Improper capitalization.	Non-compliance to memo sent by AGC on 1/24/94.		Remove the capitalization from the term "subpart" in the reference unless it begins a sentence. For examples refer to pages 3 and 25.				Done
8.	Paragraph 1, 2 nd sentence, Page 1	Missing comma.			Place a comma after the number "33" .				Done
9.	Paragraph 2, Page 1	Change wording and missing comma.			Rewrite to read: AC 33-2B, "Aircraft Engine Type Certification Handbook", dated June 30, 1993, is cancelled.				Done

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10.	Paragraphs 2 & 3, Page 1	Incorrect placement of paragraphs.		Non-compliance to Order 1320.46C.		Applicability should be paragraph number 2 and Cancellation should be paragraph number 3.		Done	
11.	Paragraph 3b, 3 rd sentence, Page	Change wording.				Rewrite to read: We sill consider other methods an applicant may...		Done	
12.	Paragraph 4, Page 2	Missing comma.				Place a comma after the number "33" .		Done	
13.	Paragraph 4, Page 2	The term/title "Title 14 of the Code of Federal Regulations" has already been defined in paragraph 1.				Use the acronym "14 CFR".		Done	
14.	Paragraphs 4, 5, &6, Page 2	Suggestion.				Consider combining paragraphs 4, 5, and 6.		Do not concur. No change.	

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15.	Paragraph 5a, Page 2	Missing comma.			Place a comma after "Order 8110.4C".	Done			
16.	Paragraph 5a, Page 2	Delete "c" since you're already identifying "latest revision" of Order 8110.4.			Rewrite to read: order 8110.4 "Type Certification", dated October 26, 2005.	Done (prefer to keep)			
17.	Paragraph 5b, Page 2	Change wording.			Rewrite to read: Order 8110.52, "Type Validation and Post-Type Validation Procedures", dated April 29, 2005.	Done			
18.	Paragraph 7a(1) (2), (4) thru (10), Pages 3 & 4	Change wording.			Rewrite to read: Affects the operational characteristics of the engine or airplane.	Not clear. Do not concur. No change.			
19.	Paragraph 7b, Page 4	Define the term "designee engineer representative" first.			Use the acronym "DER after the first usage.	Spelled out. Not used again.			

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20.	Paragraph 8, Page 4	The term "Type Certificate Data Sheet" found in the title has already been defined in paragraph 6.			Rewrite title to read: TCDS Content (§§ 21.41 and 33.7).			Done	
21.	Paragraph 8, last sentence, Page 4	Add wording.			Rewrite to read: ...and what type of information is necessary to document.			Text revised for clarity.	
22.	Paragraph 8b, 2 nd sentence, Page 5	Change wording.			Rewrite to read: ...as shown on the type certificate (TCDS No. XYZ).			Done	
23.	Paragraph 8c, Page 5	Incorrect spacing.			Remove extra space from between the terms "federal" and "regulations".			Done	
24.	Paragraph 8c, Page 5	Missing punctuation.			Place a dash mark to appear in the term "FAA-approved".			Done	

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25.	Table 1, Pages 10 & 11	Clarity.			Why is Table 1 split?		Fixed.		
26.	Table 1, Between Notes 14 & 15, Page 11	Incorrect spacing.			Place a space between Note 14 & 15.		Done		
27.	Paragraph 9a(2), Page 12	Clarity.			This sentence appears to be missing a word and is incomplete. Place a period after the term "parts" and begin a new sentence with the term "see".		Text revised for clarity.		
28.	Paragraph 9a(2), 2 nd sentence, Page 13	Missing title of order.			Insert the title of Order 8110.56 directly after it.		Done		
29.	Paragraph 9a(4), Page 13	Clarity.			Is this military aircraft and engines? If no, this paragraph may be mis-located.		Text OK as is. No change.		

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30.	Paragraph 9a(4)(a) thru (d), Page 13	Missing title of references.			Place the title of each reference directly after it.	Done, although normally the title/date is spelled out once and only the document number is then referenced throughout.			
31.	Paragraph 9b, last sentence, Page 14	Add wording.			Rewrite to read: ...and provide for surplus military aircraft and engines:	Text OK as is. No change necessary.			
32.	Paragraph 9b(a)-(c) & c(a) & (b), Page 14	Incorrect formatting.			Delete the labeling of (a) (b) (c) & (a) and (b) and replace the letters with numbers in parenthesis. For example: 9. a. b. (1) (2) (3) c. (1)	Done			
33.	Paragraph 9c(a), Page 14	Improper capitalization.			Remove the capitalization from the term “paragraphs” in the reference of AC 20- 142.	Done			

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34.	Paragraphs 9d & f, Page 14	Improper capitalization.			Remove the capitalization from the term "military".		Done		
35.	Paragraph 9e, 1 st sentence, Page 14	Change wording.			Rewrite to read: U.S. military surplus parts (new or used), which were originally produced under FAA- approved quality system, may be...		No change needed		
36.	Paragraph 9g, 3 rd sentence, Page 15	Missing punctuation.			Place a dash mark to appear in the term "FAA-approved".		Done		
37.	Paragraph 10, 2 nd sentence, Page 15	Incorrect spacing.			Delete the extra space in the reference from between § 45.13and (a)(2).		Done		
38.	Paragraph 10, 8 th sentence, Page 15	Clarity.			Is this a degree symbol?		Yes - OK as is, no change.		

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39.	Paragraph 10, 10 th sentence, Page 16	Missing possession.			Place an apostrophe in the term "applicant".		Done		
40.	Paragraph 10, 11 th sentence, Page 16	Change wording.			Rewrite to read: AC 43-17, "Methods, Techniques and Practices Acceptable to the Administrator..."		Done		
41.	Paragraph 10, last sentence, Page 16	Improper usage of comma.			Remove the comma after the acronym "ICA".		Done		
42.	Paragraph 11, last sentence, Page 16	Redundant information.			Remove the word phrase "are not addressed by this AC". It's repetitive of the beginning of the sentence.		Done		
43.	Paragraph 11a(1) & (a) & (b), Page 17	Change wording and formatting of outline.			Rewrite to read: In addition, the containment capability of major engine structural parts with cracks must be preserved during the useable life of containment casings. Relate publications are: (1) AC 33-4, "Design Considerations Concerning the..."		Done		

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			(2) AC 33-5, "turbine Engine Rotor Blade Containment..."	
44.	Paragraph 11b, 1 st sentence, Page 17	Change wording.	Rewrite to read: This section addresses, but is not limited to, operating fluid, external engine surface, component operating temperature, and secondary bleed air system considerations.	OK
45.	Paragraph 11b(1), Page 17	Change wording and formatting of outline.	Delete subparagraph 11b(1) and rewrite to be combined with subparagraph 11b and place as the last sentence to read: There are no additional FAA publications on this topic.	No change
46.	Paragraph 11d(1), Page 18	Change wording and formatting of outline.	Delete subparagraph 11d(1) and rewrite to be combined with subparagraph 11d and place as the last sentence to read: There are no additional FAA publications on this topic.	No change.
47.	Paragraph 11e(1)(a) & (b), Page 19	Change wording and formatting of outline.	Rewrite to read: The installation instructions required by § 33.5 should contain the instrumentation information needed by the installer. Additional publications include: (1) AC 33-7A, "Guidance for Second and 2 Minute One-	No change.

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						Engine... (2) AC 33.28-1, "Compliance Criteria for 14 CFR...			
48.	Paragraph 11e(1)(b), Page 19	Incorrect abbreviation.	Delete "14 CRF".		Replace with "14 CFR".			Done	
49.	Paragraph 11e(1)(b), Page 19	Missing date of AC.			Place the date of AC 33.28-1 after the title.			Done	
50.	Paragraph 11f & (1), Page 19	Change wording and formatting of outline.			Delete subparagraph 11f and (1) and rewrite to be combined with subparagraph 11f and place as the last sentence to read: There are no additional FAA publications on this topic.			No change needed.	
51.	Paragraph 11g(2), Page 19	Change wording.			Rewrite to read: <u>References:</u> Military Specification MIL-E-5007E(AS), "Engines, Aircraft, Turbojet and Turbofan..."			Done	

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52.	Paragraph 11h, Page 20	Change wording and formatting of outline.			Rewrite to read: ...of all aircraft sources of electrical power required by the engine ignition system. Also refer to: Policy No. PS-ANE100-2001-1998-33.69R1, "Policy for Evaluating Ignition System Requirements, 14 CFR 33.69" dated February 26, 2001.	No changes needed.			
53.	Paragraph 11i & (1), Paragraph, Page 20	Change wording and formatting of outline.			Delete subparagraph 11i and (1) and rewrite to be combined with subparagraph 11i and place as the last sentence to read: There are no additional FAA publications on this topic.	No changes needed.			
54.	Paragraph 11j & (1), Paragraph, Page 20	Change wording and formatting of outline.			Delete subparagraph 11j and (1) and rewrite to be combined with subparagraph 11j and place as the last sentence to read: There are no additional FAA publications on this topic.	No changes needed.			
55.	Paragraph 11k & (1), Paragraph, Page 20	Change wording and formatting of outline.			Delete subparagraph 11k and (1) and rewrite to be combined with subparagraph 11k and place as the last sentence to read: There are no additional FAA publications on this topic.	No changes needed.			
56.	Paragraph 11(1), Page 20	The term "one engine inoperative" has already been defined.			Use the acronym "OEI".	Done			

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57.	Paragraph 11l(3), 7 th sentence, Page 21	Improper usage of comma.			Remove the comma after the reference to “§ 33.87”.			Done	
58.	Paragraph 11l(a), Page 21	Incorrect labeling.	Delete labeling of subparagraph (a).		Remove the subparagraph (4).			Relabeled reference as (4).	
59.	Paragraph 11l(a), Page 21	Change and add wording.			Rewrite to read: <u>References</u> : There are no additional FAA publications on this topic.			No change needed.	
60.	Paragraph 11m(5)(a), (b), & (c), Page 22	Redundant information.			Delete the term “titled” from the references.			Done	
61.	Paragraph 11n (1) thru (7), Page 23	Change outline.			Rewrite to read: n. Section 33.89 – Operation Test. (1) The intent of this section is to... (a) Demonstrate start characteristics throughout... (b) Demonstrate engine operation...			Do not concur. No change.	

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			<p>(c) Demonstrate engine operation throughout...</p> <p>(d) Demonstrate the ability of the engine to withstand...</p>		
62.	Paragraph 11n(7)(a), Page 23	Change outline.	Delete the labeling of subparagraph 11n (a).	Replace with subparagraph 11n (b).	Relabeled reference as (8).
63.	Paragraph 11o(3), last sentence, Page 24	Incorrect formatting.		Move text up a line and remove the hard return between "negative" and "torque".	There is no separation in the paragraph and no hard return.
64.	Paragraph 11o(4), 1 st sentence, Page 24	Missing comma.		Place a comma after the term "rig".	Done
65.	Paragraph 11q, 2 nd sentence, Page 25	Change wording.		Rewrite to read: ...for the endurance, calibration, operation, and vibration tests as required under subpart F of part 33.	Done

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66.	Paragraph 11q(1), Page 25	Change wording and delete the labeling of subparagraph 11q(1) and combine with paragraph 11q.			Rewrite to read: ...for the endurance, calibration, operation, and vibration tests as required under subpart F of part 33. Refer to AC 20-18A, "Qualification Testing of Turbojet Engine Thrust Reversers" dated March 16, 1996.			Do not concur. No change.	
67.	Signature Block, Page 25	Incorrect spacing.			There should be five spaces between the last paragraph and signature block.			Done	
68.	Page 26	Extra page.			Delete last page if still blank after reformatting.			No blank page. You show 26 pages, we show 15. Your local printer set-up alters pages etc.	