

QUADRO COMPARATIVO

33.7		Justificativa
RBAC 33 Emenda 33-29	RBAC 33 Emenda 33-30	
<p>§ 33.7 Engine ratings and operating limitations.</p> <p>...</p> <p>(c)</p> <p>...</p> <p>(16) For engines to be used in supersonic aircraft, engine rotor windmilling rotational r.p.m.</p> <p>(17) [INEXISTENTE]</p>	<p>33.7 Engine ratings and operating limitations.</p> <p>...</p> <p>(c)</p> <p>...</p> <p>(16) Transient engine overtorque, and number of overtorque occurrences.</p> <p>(17) Maximum engine overtorque for turbopropeller and turboshaft engines incorporating free power turbines.</p>	<p>O requisito foi alterado para fins de harmonização com a EASA.</p> <p>Foram criados novos requisitos (em vermelho ao lado) para tratar de sobretorque.</p>

33.84		Justificativa
RBAC 33 Emenda 33-29	RBAC 33 Emenda 33-30	
<p>§ 33.84 [INEXISTENTE]</p>	<p>33.84. Engine overtorque test.</p> <p>(a) If approval of a maximum engine overtorque is sought for an engine incorporating a free power turbine, compliance with this section must be demonstrated by testing.</p> <p>(1) The test may be run as part of the endurance test requirement of Sec. 33.87. Alternatively, tests may be performed on a complete engine or equivalent testing on individual groups of components.</p>	<p>O requisito foi alterado para fins de harmonização com a EASA.</p> <p>Foram criados novos requisitos (neste caso, toda uma seção) para tratar de sobretorque.</p>

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	<p>(2) Upon conclusion of tests conducted to show compliance with this section, each engine part or individual groups of components must meet the requirements of Sec. 33.93(a)(1) and (a)(2).</p> <p>(b) The test conditions must be as follows:</p> <p>(1) A total of 15 minutes run at the maximum engine overtorque to be approved. This may be done in separate runs, each being of at least 2½ minutes duration.</p> <p>(2) A power turbine rotational speed equal to the highest speed at which the maximum overtorque can occur in service. The test speed may not be more than the limit speed of take-off or OEI ratings longer than 2 minutes.</p> <p>(3) For engines incorporating a reduction gearbox, a gearbox oil temperature equal to the maximum temperature when the maximum engine overtorque could occur in service; and for all other engines, an oil temperature within the normal operating range.</p> <p>(4) A turbine entry gas temperature equal to the maximum steady state temperature approved for use during</p>	
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	periods longer than 20 seconds when operating at conditions not associated with 30-second or 2 minutes OEI ratings. The requirement to run the test at the maximum approved steady state temperature may be waived by the FAA if the applicant can demonstrate that other testing provides substantiation of the temperature effects when considered in combination with the other parameters identified in paragraphs (b)(1), (b)(2) and (b)(3) of this section.	
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33.87		Justificativa
RBAC 33 Emenda 33-29	RBAC 33 Emenda 33-30	
<p>§ 33.87 Endurance test.</p> <p>...</p> <p>(a)</p> <p>...</p> <p>(8) If the number of occurrences of either transient rotor shaft overspeed or transient gas overtemperature is limited, that number of the accelerations required by paragraphs (b) through (g) of this section must</p>	<p>§ 33.87 Endurance test.</p> <p>...</p> <p>(a)</p> <p>...</p> <p>(8) If the number of occurrences of either transient rotor shaft overspeed, transient gas overtemperature or transient engine overtorque is limited, that number of the accelerations required by paragraphs (b) through (g) of this section must be made at the limiting overspeed,</p>	<p>O requisito foi alterado para fins de harmonização com a EASA.</p> <p>Neste caso, foi incluída a condição de sobretorque, em adição às de sobretemperatura e sobrevelocidade.</p>

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be made at the limiting overspeed or overtemperature. If the number of occurrences is not limited, half the required accelerations must be made at the limiting overspeed or overtemperature.	overtemperature or overtorque. If the number of occurrences is not limited, half the required accelerations must be made at the limiting overspeed, overtemperature or overtorque.	
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