


<b>EASA</b>	<b>NOTIFICATION OF A PROPOSAL TO ISSUE AN AIRWORTHINESS DIRECTIVE</b>
	<p><b>PAD No.: 14-181</b></p> <p><b>Date: 23 December 2014</b></p> <p>Note: This Proposed Airworthiness Directive (PAD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.</p>
<p>In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the issuance of an EASA Airworthiness Directive (AD), applicable to the aeronautical product(s) identified below. All interested persons may send their comments, referencing the PAD Number above, to the e-mail address specified in the 'Remarks' section, prior to the consultation closing date indicated.</p>	
<b>Design Approval Holder's Name:</b> GE AVIATION CZECH	<b>Type/Model designation(s):</b> M601 engines
TCDS Number: EASA.E.070	
Foreign AD: Not applicable	
Supersedure: None	
<b>ATA 72</b>	<b>Engine – Gas Generator Turbine Blades – Replacement</b>
<b>Manufacturer(s):</b>	GE Aviation Czech s.r.o (formerly Walter Engines a.s.)
<b>Applicability:</b>	<p>M601D-1, M601E, M601E-11, M601E-11A, M601E-21, M601F, M601FS, M601F-22, M601F-32, M601T and M601Z engines with a serial number (s/n) as listed in Appendix 1 of this AD.</p> <p>These engines are known to be installed on, but not limited to, Aircraft Industries L-410 aeroplanes.</p>
<b>Reason:</b>	<p>It has been demonstrated that non-shot peened Gas Generator Turbine (GGT) blades are susceptible to blade separation in the shank area due to their reduced fatigue life.</p> <p>This condition, if not corrected, could lead to an in-flight engine shutdown and, consequently, reduced control of the aeroplane.</p> <p>To address this unsafe condition, GE Aviation Czech issued SB M601D-1_31 (for engines overhauled prior to 2012) and SB M601D-1_32 (for engines overhauled prior to 2009) to provide instructions for GGT blade replacement.</p> <p>For the reason described above, this AD requires replacement of the non-shot peened GGT blades.</p>
<b>Effective Date:</b>	[TBD: 14 days after final AD issue date]

Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>Within 300 flight hours or 6 months, whichever occurs first after the effective date of this AD, replace the non-shot peened GGT blades with shot peened GGT blades in accordance with the instructions of GE Aviation Czech SB M601D-1_31 or SB M601D-1_32, as applicable to engine s/n.</p>
Ref. Publications:	<p>GE Aviation Czech SB M601D-1_31 dated 23 December 2014.</p> <p>GE Aviation Czech SB M601D-1_32 dated 23 December 2014.</p> <p>The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.</p>
Remarks:	<ol style="list-style-type: none"> <li>1. This Proposed AD will be closed for consultation on 09 January 2015.</li> <li>2. Enquiries regarding this PAD should be referred to the Safety Information Section, Certification Directorate, EASA. E-mail: <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a>.</li> <li>3. For any question concerning the technical content of the requirements in this PAD, please contact:  GE Aviation Czech  Beranových 65, 199 02 Praha 9 – Letňany  Czech Republic  Tel.: +420 222 538 111; Fax: +420 222 538 222.</li> </ol>

## Appendix 1 – Affected engine s/n

GE Aviation Czech SB M601D-1\_31:

**M601D-1**

873015	852079
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**M601E-11**

862001	863008	894018
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**M601T**

941004	942004	954002
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**M601Z**

904002	911003	931002	894005
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GE Aviation Czech SB M601D-1\_32:

**M601D-1**

851005	932003
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**M601E-11**

034005	034006	034007	034008	041003	042002
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**M601E-11A**

042003	042004	044001	044002	961001
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**M601E-21**

914006
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**M601E**

034004	041001	921011
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**M601F**

024001	002001	003001	024001	934001	934002	961001
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**M601F-22**

941014
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**M601F-32**

983007
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**M601T**

004001	004002	004003	004004	022001	873003	914001
914002	922001	922002	923001	923002	932001	932002
932003	941001	941002	941003	941005	941006	941007
941008	941009	941010	942001	942002	942003	942004
942005	951002	954001	954003	954004	984001	984002
991001	994001	994002	994003			

**M601Z**

832016	844001	851002	851003	851004	852006	861001
861002	861003	861004	861005	862001	862002	862003
862004	862005	862006	862007	863001	863002	863004
864001	864002	864003	864004	871002	871004	871005
881001	881002	881003	881005	882001	882003	882005
891001	891002	891004	892002	892003	894001	894002
894003	894004	894005	901002	902001	903002	904001
904003	911001	911002	912001	912002	913001	913002
931001	932002	934002				