	<b>AIRWORTHINESS DIRECTIVE</b> <b>No F-2005-063 R1</b>		Distribution: <b>A</b>	Issue date: <b>May 25, 2005</b>	Page : <b>1/2</b>
	Direction générale de l'aviation civile France GSAC publication	This Airworthiness Directive is published by the DGAC on behalf of EASA, Airworthiness Authority of the State of Design for the affected product, part or appliance.		<i>Translation of « Consigne de Navigabilité » of same number.          In case of difficulty, reference should be made to the French issue.</i>	
<b>No person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive, unless otherwise agreed with the Authority of the State of Registry.</b>					
Corresponding foreign Airworthiness Directive(s): <b>Not applicable</b>			Airworthiness Directive(s) replaced: <b>UF-2005-063 R1</b>		
Person in charge of airworthiness: <b>TURBOMECA</b>			Type(s): <b>ARRIUS 1 turboshaft engines</b>		
Type certificate(s) No. <b>M16</b> TCDS No <b>M16</b>					
ATA chapter: <b>77</b>		Subject: <b>Engine indicating - Test of free turbine overspeed protection system</b>			

#### 1. **EFFECTIVITY:**

This Airworthiness Directive (AD) applies to TURBOMECA turboshaft engines ARRIUS 1A and 1E.

These engines equip AS 355 N twin engined helicopters.

#### 2. **REASONS:**

Investigation of an ARRIUS 1 Digital Engine Control Unit (DECU) revealed a malfunction in the stop circuit of the Free Turbine Overspeed Protection System which cannot be detected through the test defined by the task No 77-30-01 (April 1995 issue) of the ARRIUS 1 Maintenance Manual.

A malfunction of the Free Turbine Overspeed Protection System may lead to a non-contained release of high-energy debris from the free turbine in case of a free turbine overspeed event.

The Revision 1 aims at correcting the Alert Service Bulletin in reference.

#### 3. **MANDATORY ACTIONS AND COMPLIANCE TIMES:**


The following actions are made mandatory from the effective date of this AD :

3.1. Implement Alert Service Bulletin No A319 77 0804 within 25 engine operating hours and at the latest by May 31<sup>st</sup>, 2005,

3.2. Repeat operation of § 3.1. each time task 77-30-01 is performed according to the frequency defined for this task in chapter 05-10-02 of the ARRIUS 1 Maintenance Manual.

#### 4. **REFERENCE PUBLICATIONS:**

Alert Service Bulletin No A319 77 0804 original issue or subsequent  
 ARRIUS 1A Maintenance Manual Ref X 319 D6 300 1  
 ARRIUS 1E Maintenance Manual Ref X 319 H5 300 1.

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5. **EFFECTIVE DATE:**

Original issue and Revision 1 : May 07, 2005.

6. **REMARKS:**

This AD was issued as an emergency diffusion on May 04, 2005.

For questions concerning the technical contents of this AD's requirements, contact:

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TURBOMECA  
64511 BORDES - France  
Fax: 33 (0) 5 59 74 45 15 (or 45 16).

7. **APPROVAL:**

This AD Revision is approved under EASA reference No 2005-4011 dated May 04, 2005.