	<b>AIRWORTHINESS DIRECTIVE</b> <b>No F-2004-115</b>	Distribution: <b>A</b>	Issue date: <b>July 21, 2004</b> <i>Correction of August 04, 2004</i>	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>None</b>		
C Person in charge of airworthiness: <b>EUROCOPTER</b>	Type(s): <b>EC 155 and AS 365 N helicopters</b>			
	Type certificate(s) No. <b>86</b> TCDS No <b>159</b>			
ATA chapter: <b>29</b>	Subject: <b>Hydraulic power - Check of flexible hydraulic pipes and their attachment clamps</b>			

### 1. **EFFECTIVITY:**

- EC 155 B and B1 helicopters, delivered before July 1<sup>st</sup>, 2004,
- AS 365 N2 and N3 helicopters, delivered since January 1<sup>st</sup>, 1998, and with serial numbers below 6679.

### 2. **REASONS:**

Following an incident on the hydraulic power system of an EC 155 B1 helicopter in flight, which led to illumination of the "HYD" warning light, with no further consequence, a leak was found in the pressure pipe of the LH hydraulic pump.

The analysis conducted by EUROCOPTER revealed damage to the silicone protection of an attachment clamp due to contact with hydraulic fluid. The damage caused the clamp to chafe against the pipe, which led to wear and subsequent perforation of the pipe.

Consequently, to prevent any wear of the hydraulic pipes, this Airworthiness Directive (AD) imposes a mandatory periodic check of the condition of the attachment clamps and pipes pending installation of attachment clamps fitted with an acrylonitrile butadiene protection which retains its mechanical characteristics in a hydraulic environment.


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

The following measures are rendered mandatory from the effective date of this AD:

#### 3.1. For EC 155 B and B1 helicopters:

- ##### 3.1.1. Within 50 flying hours, then at intervals not exceeding 110 flying hours or one month (the first limit reached is applicable):

Comply with paragraph 2.B.2. of Alert Telex (AT) No. 29A001 (check of the condition of the attachment clamps and hydraulic pipes) for all clamps that were not modified prior to complying with paragraph 2.B.3. of AT No. 29A001 (installation of modified attachment clamps).

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**3.1.2.** No later than within 660 flying hours or 1 year (the first limit reached is applicable):

Comply with paragraph 2.B.3. of AT No. 29A001.

**3.2.** For AS 365 N2 and N3 helicopters:

**3.2.1.** Within 50 flying hours or one month (the first limit reached is applicable):

Comply once with paragraph 2.B.2. of AT No. 29.00.08 (check for conformity of the attachment clamps).

**3.2.2.** If a non-compliant clamp is found:

Comply with paragraph 2.B.3. of AT No. 29.00.08 (check of the condition of non-compliant attachment clamps and hydraulic pipes) at regular intervals of 110 flying hours or one month (the first limit reached is applicable), pending compliance with paragraph 2.B.4. of AT No. 29.00.08 (installation of compliant attachment clamps).

**3.2.3.** No later than within 660 flying hours or one year (the first limit reached is applicable):

Comply with paragraph 2.B.4. of AT No. 29.00.08.

**3.3.** From July 31, 2005, it is forbidden to install clamps with silicone protection on hydraulic pipes.

**4. REFERENCE PUBLICATIONS:**

EUROCOPTER EC 155 Alert Telex No. 29A001  
 EUROCOPTER AS 365 Alert Telex No. 29.00.08  
 (Any subsequent approved revision of these ATs is acceptable).

**5. EFFECTIVE DATE:**

July 31, 2004.

**6. REMARK:**

For any questions concerning the technical content of the requirements in this AD, please contact:

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**7. APPROVAL:**

This AD is approved under EASA reference No 2004-7514 dated July 13, 2004.