

EASA	AIRWORTHINESS DIRECTIVE
	<p>AD No.: 2014-0081</p> <p>Date: 31 March 2014</p> <p>Note: This Airworthiness Directive (AD) 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>This AD is issued in accordance with EU 748/2012, Part 21.A.3B. In accordance with EC 2042/2003 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].</p>	
<p>Design Approval Holder's Name: AIRBUS</p>	<p>Type/Model designation(s): A319, A320 and A321 aeroplanes</p>
TCDS Number:	EASA A.064
Foreign AD:	Not applicable
Supersedure:	None
ATA 53	Fuselage – Potable Water and Waste Water Service Panels – Reinforcement
Manufacturer(s):	Airbus (formerly Airbus Industrie)
Applicability:	Airbus A319-111, A319-112, A319-113, A319-114, A319-115, A319-131, A319-132, A319-133, A320-211, A320-212, A320-214, A320-215, A320-216, A320-231, A320-232, A320-233, A321-111, A321-112, A321-131, A321-211, A321-212, A321-213, A321-231 and A321-232 aeroplanes, all manufacturer serial numbers, except those on which Airbus modification (mod) 160055 or Airbus mod 160056 have been embodied in production.
Reason:	<p>During the full scale fatigue test on A320-200, it has been noticed that, due to fatigue, cracks could be initiated at the waste water service panel area and the potable water service panel area.</p> <p>This condition, if not detected and corrected, could affect the structural integrity of the aeroplane.</p> <p>Prompted by these findings, ALS Part 2 tasks have been introduced for the affected A320 family aeroplanes. Since those actions were taken, Airbus developed production mod 160055 and mod 160056 to embody reinforcements (cold working on certain rivet rows) of the potable water and waste water service panels, and published associated Airbus Service Bulletin (SB) A320-53-1272 (retrofit mod 153074) and SB A320-53-1267 (retrofit mod 153073) for in-service embodiment.</p> <p>Following complementary Design Office studies, it appears that the Sharklet installations on certain aeroplanes have a significant impact on the aeroplane structure (particularly, A319 and A320 post-mod 160001, and A321 post-mod 160021), leading to different compliance times, depending on aeroplane configuration.</p>

	For the reasons described above, this AD requires reinforcement of the potable water and waste water service panels. Accomplishment of these modifications cancels the need for the related ALS Part 2 Tasks.																																
Effective Date:	14 April 2014																																
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>(1) Before exceeding the compliance time as specified in Table 1 of this AD, as applicable, modify the potable water service panel in accordance with the instructions of Airbus SB A320-53-1272 Revision 01.</p> <p style="text-align: center;">Table 1 – Potable Water Service Panel Reinforcement</p> <table border="1" data-bbox="571 591 1374 976"> <thead> <tr> <th>Affected aeroplanes</th> <th>Compliance time (Flight cycles (FC) or flight hours (FH), whichever occurs first since aeroplane first flight)</th> </tr> </thead> <tbody> <tr> <td>A319 pre-mod 160001</td> <td>48 500 FC or 97 000 FH</td> </tr> <tr> <td>A319 post-mod 160001</td> <td>46 000 FC or 92 000 FH</td> </tr> <tr> <td>A320 pre-mod 160001</td> <td>54 200 FC or 108 400 FH</td> </tr> <tr> <td>A320 post-mod 160001</td> <td>36 000 FC or 72 000 FH</td> </tr> <tr> <td>A321</td> <td>60 000 FC or 120 000 FH</td> </tr> </tbody> </table> <p>(2) Before exceeding the compliance time as specified in Table 2 or Table 3 of this AD, as applicable, modify the waste water service panel in accordance with the instructions of Airbus SB A320-53-1267 Revision 01.</p> <p style="text-align: center;">Table 2 – Waste Water Service Panel Reinforcement</p> <table border="1" data-bbox="571 1178 1374 1585"> <thead> <tr> <th>Affected aeroplanes</th> <th>Compliance time (FC or FH, whichever occurs first since aeroplane first flight)</th> </tr> </thead> <tbody> <tr> <td>A319 pre-mod 160001</td> <td>44 400 FC or 88 800 FH</td> </tr> <tr> <td>A319 post-mod 160001</td> <td>43 600 FC or 87 200 FH</td> </tr> <tr> <td>A320 pre-mod 160001</td> <td>see Table 3</td> </tr> <tr> <td>A320 post-mod 160001</td> <td>39 200 FC or 78 400 FH</td> </tr> <tr> <td>A321 pre-mod 160021</td> <td>51 600 FC or 103 200 FH</td> </tr> <tr> <td>A321 post-mod 160021</td> <td>51 200 FC or 102 400 FH</td> </tr> </tbody> </table> <p style="text-align: center;">Table 3 – Waste Water Service Panel Reinforcement for A320 pre-mod 160001 aeroplanes</p> <table border="1" data-bbox="571 1693 1423 1991"> <thead> <tr> <th colspan="2">Compliance Time (whichever occurs later, A or B)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A</td> <td>Before exceeding 46 400 FC or 92 800 FH, whichever occurs first since aeroplane first flight</td> </tr> <tr> <td style="text-align: center;">B</td> <td>Within 2 300 FC or 4 600 FH, whichever occurs first since last accomplishment of ALS Part 2 Task No. 534126-01-3 (except as required by paragraph (3) of this AD) without exceeding 48 000 FC or 96 000 FH, whichever occurs first since aeroplane first flight</td> </tr> </tbody> </table>	Affected aeroplanes	Compliance time (Flight cycles (FC) or flight hours (FH), whichever occurs first since aeroplane first flight)	A319 pre-mod 160001	48 500 FC or 97 000 FH	A319 post-mod 160001	46 000 FC or 92 000 FH	A320 pre-mod 160001	54 200 FC or 108 400 FH	A320 post-mod 160001	36 000 FC or 72 000 FH	A321	60 000 FC or 120 000 FH	Affected aeroplanes	Compliance time (FC or FH, whichever occurs first since aeroplane first flight)	A319 pre-mod 160001	44 400 FC or 88 800 FH	A319 post-mod 160001	43 600 FC or 87 200 FH	A320 pre-mod 160001	see Table 3	A320 post-mod 160001	39 200 FC or 78 400 FH	A321 pre-mod 160021	51 600 FC or 103 200 FH	A321 post-mod 160021	51 200 FC or 102 400 FH	Compliance Time (whichever occurs later, A or B)		A	Before exceeding 46 400 FC or 92 800 FH, whichever occurs first since aeroplane first flight	B	Within 2 300 FC or 4 600 FH, whichever occurs first since last accomplishment of ALS Part 2 Task No. 534126-01-3 (except as required by paragraph (3) of this AD) without exceeding 48 000 FC or 96 000 FH, whichever occurs first since aeroplane first flight
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- (3) For pre-mod 160001 A320 aeroplanes having exceeded 46 400 FC or 92 800 FH, whichever occurred first since aeroplane first flight, if cracks are found during accomplishment of ALS Part 2 Task 534126-01-3, before next flight, contact Airbus for corrective action and accomplish those actions accordingly.
- (4) Modification of an aeroplane, prior to the effective date of this AD in accordance with the instructions of Airbus SB A320-53-1272 at original issue, is acceptable to comply with the requirements of paragraphs (1) of this AD for that aeroplane.

Modification of an aeroplane, prior to the effective date of this AD in accordance with the instructions of Airbus SB A320-53-1267 at original issue, is acceptable to comply with the requirements of paragraph (2) of this AD for that aeroplane.

- (5) Modification of an aeroplane as required by paragraph (1) of this AD cancels the need to accomplish the ALS Part 2 task for that aeroplane as specified in Table 4 of this AD, as applicable.

Table 4 – ALS Part 2 Task terminated after Potable Water Service Panel reinforcement

Affected aeroplanes	ALS Part 2 Task No.
A319 pre-mod 160001	534125-01-2
A319 post-mod 160001	534125-01-5
A320 pre-mod 160001	534125-01-3
A320 post-mod 160001	534125-01-6
A321 pre-mod 160021	534125-01-4
A321 post-mod 160021	534125-01-7

- (6) Modification of an aeroplane as required by paragraph (2) or (3) of this AD cancels the need to accomplish the ALS Part 2 task for that aeroplane as specified in Table 5 of this AD, as applicable.

Table 5 – ALS Part 2 Task terminated after Waste Water Service Panel reinforcement

Affected aeroplanes	ALS Part 2 Task No.
A319 pre-mod 160001	534126-01-2
A319 post-mod 160001	534126-01-5
A320 pre-mod 160001	534126-01-3
A320 post-mod 160001	534126-01-6
A321 pre-mod 160021	534126-01-4
A321 post-mod 160021	534126-01-7

Ref. Publications:

Airbus SB A320-53-1267 original issue dated 24 June 2013, or Revision 01 dated 02 October 2013.

Airbus SB A320-53-1272 original issue dated 10 January 2013, or Revision 01 dated 06 August 2013.

The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.

Remarks:	<ol style="list-style-type: none">1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.2. This AD was posted on 23 January 2014 as PAD 14-018 for consultation until 20 February 2014. The Comment Response Document can be found at http://ad.easa.europa.eu/.3. Enquiries regarding this AD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail: ADs@easa.europa.eu.4. For any question concerning the technical content of the requirements in this AD, please contact: AIRBUS - Airworthiness Office - EIAS, Fax +33 5 61 93 44 51. E-mail: account.airworth-eas@airbus.com.
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