EASA	AIRWORTHINESS DIRECTIVE
	AD No.: 2009-0203R1 **Date: 22 February 2011** 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

This AD is issued in accordance with EC 1702/2003, Part 21A.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 Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive 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].

Type Approval Holder's Name :	**Type/Model designation(s) :**
AIRBUS	A380 Aeroplanes

TCDS Number:	EASA.A.110
Foreign AD:	Not applicable
Revision:	This AD revises EASA AD 2009-0203-E dated 28 September 2009.

ATA 38	**Water / Waste – Potable Water Circulation Pump – Inspection / Replacement**
Manufacturer(s):	Airbus
Applicability:	Airbus A380 aeroplanes, -841, -842, and -861 models, all manufacturer serial numbers, except those on which Airbus modification 69485 has been embodied in production or Airbus Service Bulletin (SB) A380-38-8016 has been embodied in service.
Reason:	Prompted by a potable water circulation pump failure that occurred at the Airbus A380 production line, investigation showed that the pump Part Number (P/N) 38000-840 was not completely switched off after an overheat condition. The Heating and Disinfection Control Unit (HDCU) was still supplying one phase power to the pump, due to a failure of a solid-state relay internal to the HDCU. The relay failure led to a current flow of approximately 5 Amps flowing into the pump, causing the overheat condition and consequent pump failure. This condition, if not detected and corrected, could cause the structural area surrounding the pump to be excessively heated, affecting the structural integrity of that area. For the reasons described above, the original issue of this AD required repetitive inspections to detect any potential circulation pump overheat for Part Number (P/N) 38000-840 and possible structural impact and, depending on findings, the necessary corrective actions. This AD is revised to introduce the replacement of the circulation pump as an optional terminating action. This new circulation pump P/N 38000-940

	has thermal fuses at each motor winding, which will cut off the power in case of single phase power.
Effective Date:	Revision 1: 08 March 2011. Original Issue: 28 September 2009.
Required action(s) and Compliance Time(s):	Required as indicated : (1) Before further flight after the effective date of this AD at original issue and thereafter before each flight, accomplish a BITE Test of the Potable Water System for potential water circulation pump overheat in accordance with the instructions of Airbus All Operator Telex (AOT) A380-38A8017 Revision 01. (2) If, during any of the tests as required by paragraph (1) of this AD, a fault is detected, before next flight, inspect the water circulation pump in accordance with the instructions of paragraph 4.2.1 of Airbus AOT A380- 38A8017 Revision 01 and, depending on findings, accomplish the corrective action(s) described in the AOT, which can include replacement of the treatment module FIN 1000MB P/N 38000-930-203 and the pump 10MB P/N 38000-840 with serviceable units. (3) In case replacement of the pump and treatment module as required by paragraph (2) of this AD cannot be done before next flight, further flights are allowed, prior to replacement, provided both pump and treatment module are deactivated, and the aeroplane is operated in accordance with the restrictions and under the conditions specified in paragraph 4.2.1 of Airbus AOT A380-38A8017 Revision 01. (4) Corrective action or replacement of parts as required by paragraph (2) of this AD does not constitute terminating action for the repetitive inspections required by this AD. (5) At the operator's discretion, replace the water circulation pump P/N 38000-840 with P/N 38000-940 in accordance with the instructions of Airbus SB A380-38-8016. This replacement (with pump with P/N 38000-940) cancels the requirements of paragraph (1) of this AD.
Ref. Publications:	Airbus AOT A380-38A8017 Revision 01 dated 25 September 2009; Airbus Service Bulletin A380-38-8016 at Original Issue. The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.
Remarks :	1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 2. The required actions and the risk allowance have granted the issuance of a Final AD with Request for Comments, postponing the public consultation process after publication. 3. Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification 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 SAS - EANA (Airworthiness Office), Phone: +33 562110253 ; Fax:+33 562 110 307. E-mail: account.airworth-A380@airbus.com and Nicolas.Cordeau@airbus.com.