

SAFO 08020 Supplemental Document: Systems Lost Due to Failure of AC Bus I

Due to the failure of AC BUS 1, some additional systems are lost, but they will be recovered when electronic centralized aircraft monitoring (ECAM) actions are completed. These systems include:

- Most cockpit lighting,
- Most communication and navigation functions, to include VHF-1, ILS-1, flight interphone, ACARS, and transponder number one (ATC-1).
- Speed information from the ADR1/ADR3 to the landing gear control and indicating unit one (LGCIU1).
- The brake pressure indicator.
- The standby compass
- Left window heat and captain's pitot heat
- Avionics blower fan
- The cabin pressure controller one
- Both channels of the pack one controller
- Engine one full authority digital engine control (FADEC1) channel A
- A number of fuel pumps.
- The captain's dome light will remain powered if it has been selected ON in accordance with Airbus Operational Engineering Bulletin 185/2. This bulletin recommends operating with the dome light ON. The dome light may be turned to OFF when the airplane approaches minima if the flight crew believes that it is a distraction.

Airbus has developed Service Bulletin A320-24-1120 for A320 series airplanes, which will provide for the automatic reconfiguration of the AC ESS BUS power supply to ALTN (AC BUS 2) in the event of an AC BUS 1 failure. The FAA intends to mandate implementation of this modification through the issuance of an Airworthiness Directive (AD).

It is imperative that operators take a proactive approach to develop or re-enforce guidance and training, which increases the flight crew's ability to recognize the symptoms of AC BUS 1 failure. The loss of the AC BUS 1, AC ESS BUS, TR1, and the DC ESS BUS requires correct and timely pilot application of the ECAM procedures used to recover the lost flight displays and aircraft systems, which occur in conjunction with the loss of AC BUS 1 electrical power.

Questions: For any questions pertaining to this SAFO, please contact Gloria R. LaRoche, AFS-200 at (202) 493-5427.