Attachment 4

To Operations/Human Performance Group Factual Report

DCA11IA040

Avionics Smoke Procedure

27 NOV 09

AVIONICS SMOKE

Condition: Smoke is detected in the ventilation extract duct.

Action:

■ LAND AT THE NEAREST SUITABLE AIRPORT.

Note: Since smoke in the extract duct may be from the avionics or the air conditioning system, consider accomplishing the Smoke, Cabin/Cockpit QRC procedure. Suspect air conditioning smoke if smoke is entering the cockpit from the ventilation outlets or if smoke is detected following an engine or APU problem.

Follow this procedure to:

- Maintain airplane control
- · Establish a smoke configuration
- · Attempt to isolate and turn off faulty equipment, or
- If unable, or if smoke continues after 5 minutes, put the electrical system in the emergency configuration
- · Attempt to restore electrics prior to landing

IF PERCEPTIBLE SMOKE:

turned OFF.

If smoke is confirmed, the following procedure *must* be applied.

■ Oxygen maskOn		
Ensure crew communication is established. Avoid the use of interphone position to minimize interference from oxygen mask breathing noise. Check oxygen diluter selector is at 100% and turn the emergency knob to remove condensation or smoke from the mask.		
■ BLOWEROVRD		
■ EXTRACTOVRD		
Avionics ventilation is provided by air conditioning system and extracted overboard.		
■ CAB FANSOFF		
This prevents smoke from entering cockpit and cabin.		
■ GALLEY/GALY & CAB switchOFF		
■ CKPT/CAB COM ESTABLISH		
■ SignsOn		
■ Emergency exit lightsON		
Provides minimum cabin lighting when the COMMERCIAL switch is		

A319/A320

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If COMMERCIAL switch is installed:
■ Commercial switch Off
■ Faulty equipment (if identified)
If smoke disappears within 5 minutes:
■ NORM VENTILATION
If smoke persists after 5 minutes:
■ EMER ELEC GEN 1 LINE
■ EMER ELEC PWR
WHEN EMER GEN AVAIL:
■ APU GEN OFF
■ GEN 2 OFF ELEC EMER CONFIG
■ MIN RAT SPEED140 KT
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Note: The electrical configuration is the same as for loss of both generators (except that one fuel pump in each wing tank remains supplied). See <u>ELEC</u> EMER CONFIG in the Emergency Procedures chapter for affected and inoperative systems.
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14.20.43 Irregular Procedures Procedures A-D

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If on A320s with yellow-capped circuit breakers:		
■ LDG ELEVMAN ADJUST Ensures proper cabin depressurization, whether normal electrical power is restored or not.		
BEFORE L/G EXTENSION:		
Restore normal electrical supply for landing.		
■ GEN 2	ON	
■ EMER ELEC GEN 1 LINE	ON	
F/CTL ALTN LAW		
(PROT LOST) Flight control normal laws and associated protections are lost. Only load factor limitation, high and low speed stability are provided.		
■ MAX SPEED		
EPR MODE FAULT N1 DEGRADED MODE ECAM message appears.		
	STATUS	
Lower ECAM display is not available. Status page is displayed on upper ECAM if STS button is held down.		
■ MIN RAT SPEED140 KT	RUD TRV LIM YAW DAMPER	
■ MAX SPEED320 KT RUDDER WITH CARE ABV 160 KT	AP 2	
APPR PROC	CAT 2 FAC 2	
■ MAX BRK PRESS 1000 PSI		
■ FOR LDG	VENT EXTRACT AFT CRG HEAT	
■ GPWS LDG FLAP 3ON	AFT CRG VENT	
■ APPR SPDVREF + 10 KT		
■ LDG DIST PROC		

CHECKLIST COMPLETE - -