

## Attachment 12

To Operations/Human Performance Group Factual Report

DCA11IA040

Emergency Generator/Battery Powered Equipment

## EMERGENCY GENERATOR/BATTERY POWERED EQUIPMENT

### Action:

System Component	Emergency Generator Operating	Battery only <sup>1</sup>	
		In Flight	Ground
(AIR COND/ PRESS) PRESS AUTO SYS 1	Normal	Normal	Normal
MAN PRESS CTL	Inop	Inop	Inop <sup>2</sup>
RAM AIR	Normal	Normal	Normal
PACK VALVE 1	Normal	Closure Inop	Closure Inop
PACK VALVE 2	Closure Inop	Closure Inop	Closure Inop <sup>2</sup>
AVIONIC VENT	Normal	Normal	Partial
AFT CRG ISOL VALVE (A320)	Normal	Inop	Inop
AFT CRG HEAT (A320)	Normal	Inop	Inop
(APU) ECB - STARTER	Normal <sup>3</sup>	Inop	Inop <sup>2</sup>
FUEL LP VALVE	Normal	Normal	Normal
FUEL PUMP	Normal	Normal	Normal
(COM) VHF 1	Normal	Normal	Normal
HF 1 (A320)	Normal	Inop	Inop
RMP 1	Normal	Normal	Normal
ACP (CAPT, F/O)	Normal	Normal	Normal
CIDS	Normal	Normal	Normal
INTERPHONE	Normal	Normal	Normal
CVR	Normal	Inop	Inop
LOUDSPEAKER 1 (left)	Normal	Normal	Normal
(EIS) PFD 1	Normal	Normal	Normal <sup>4</sup>
ND 1	Normal	Inop	Inop
ECAM Upper Display	Normal	Normal	Normal <sup>4</sup>
DMC 1 or 3	Normal	Normal	Normal <sup>4</sup>

System Component	Emergency Generator Operating	Battery only <sup>1</sup>	
		In Flight	Ground
SDAC 1, FWC 1	Normal	Normal	Normal <sup>4</sup>
ECAM Control Panel	Normal	Normal	Normal
<b>(EMER EQPT)</b> CREW OXYGEN	Normal	Normal <sup>5</sup>	Normal <sup>5</sup>
PAX OXY (Mask Release)	Normal	Inop	Inop
SLIDES ARM/ WARN	Normal	Normal	Normal
<b>(ENG)</b> FADEC	A + B <sup>6</sup>	A + B <sup>6</sup>	A + B <sup>6</sup>
IGNITION	A only	A only	A only
REVERSER	Not Available	Not Available	#1 only (on some airplanes)
HP FUEL VALVE (closure)	Normal	Normal	Normal
<b>(FLT INS)</b> CLOCKS	Normal	Normal	Normal
<b>(FIRE)</b> ENG 1 LOOP	A only	A only	A only
ENG 2 LOOP	B only	B only	B only
APU LOOP	Inop	Inop	Inop <sup>2</sup>
CARGO SMOKE DET	Channel 1	Inop	Inop
ENG FIRE EXT	Bottle #1 only	Bottle #1 only	Bottle #1 only
APU FIRE EXT	Squib A only	Squib A only	Squib A only
CARGO FIRE EXT	Inop	Inop	Inop <sup>2</sup>
APU AUTO EXT	Inop	Inop	Inop <sup>2</sup>
<b>(FLT CTL)</b> ELAC	#1 only	#1 + #2	#1 + #2 <sup>7</sup>
SEC	#1 only	#1 only	#1 only <sup>7</sup>
FCDC	#1 only	Inop	Inop
SFCC	#1 only	#1 only	#1 only
FLAPS POS IND	Normal	Normal	Normal <sup>4</sup>
<b>(FMGS)</b> FMGC (Nav Function)	#1 only	Inop	Inop

System Component	Emergency Generator Operating	Battery only <sup>1</sup>	
		In Flight	Ground
MCDU	#1 only	Inop	Inop
FAC	#1 only	Inop	Inop
FCU	Channel 1 only	Channel 1 only	Channel 1 only
<b>(FUEL)</b> LP VALVE	Normal	Normal	Normal
FQI Channel 1	Normal	Inop	Inop
X FEED VALVE	Normal	Inop	Inop
TRANSFER VALVE	Normal	Inop	Inop
<b>(HYD)</b> FIRE VALVES	Normal	Normal	Normal
<b>(ICE-RAIN)</b> WING A. ICE	Normal	Inop	Inop
ENG ANTI ICE VALVE	Open	Open	Open
CAPT PITOT	Normal	Normal	Normal <sup>4</sup>
CAPT AOA	Normal	Inop	Inop
<b>(LANDING GEAR)</b> LGCIU SYS 1	Normal	Normal	Normal
BRK PRESS IND	Normal	Normal	Normal
PARK BRK	Normal	Normal	Normal
<b>(LIGHTS)</b> EMER COCKPIT	Normal	Normal	Normal
EMER CABIN	Normal	Normal	Normal
<b>(NAVIGATION)</b> IR	#1 only <sup>8</sup>	#1 only <sup>8</sup>	#1 only <sup>8</sup>
ADR	#1 only	#1 only	#1 only
FLIGHT DIRECTORS	Inop	Inop	Inop
ADF	#1 only	Inop	Inop
VOR-ILS	#1 only	#1 only	#1 only <sup>4</sup>
DME	#1 only	Inop	Inop
VOR/DDRMI	Normal	Normal	Normal <sup>4</sup>
ATC	#1 only	Inop	Inop
STANDBY HORIZON	Normal	Normal	Normal

System Component	Emergency Generator Operating	Battery only <sup>1</sup>	
		In Flight	Ground
STANDBY COMPASS LT	Normal	Normal	Normal
STANDBY ALTI (VIB)	Normal	Inop	Inop
<b>(PNEUMATICS)</b> ENG 1 BLEED	Normal	BMC #1 Inop	BMC #1 Inop
ENG 2 BLEED	BMC #2 Inop	BMC #2 Inop	BMC #2 Inop
APU BLEED	Inop	Inop	Inop <sup>2</sup>
X BLEED (Man Control)	Normal	Inop	Inop
<b>(MISC)</b> MECH HORN	Normal	Normal	Normal

- <sup>1</sup> Emergency generator does not operate on the ground, during RAT extension, or after landing gear extension on A320s with yellow-capped circuit breakers.
- <sup>2</sup> Restored when speed below 100 knots.
- <sup>3</sup> For APU start only.
- <sup>4</sup> Lost when speed below 50 knots.
- <sup>5</sup> Crew oxygen valve inoperative.
- <sup>6</sup> Channels A and B are self-powered above 10% N<sub>2</sub>. If N<sub>2</sub> below 10%, only channel A is powered.
- <sup>7</sup> Lost 30 seconds after last engine shut down.
- <sup>8</sup> IR2 and IR3 are lost 5 minutes after failure of main generators but if IR3 replaces IR1 (ATT-HDG selector at CAPT3), IR3 remains supplied.

**— — — — — CHECKLIST COMPLETE — — — — —**