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Electrical Power Subsystem (EPS) Power Distribution Malfunction Symptom 8

National Aeronautics and Space Administration (NASA)

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APOLLO OPERATIONS HANDBOOK

SYMPTOM	PROCEDURE	REMARKS
<p>MV BUS (A) DISCONNECT YELLOW INT ON (RED)</p> <p>AC BUS (A) YELLOW INT ON (RED)</p> <p>MV BUS (B) DISCONNECT YELLOW INT ON (RED)</p> <p>PC BUS DISCONNECT YELLOW INT ON (RED)</p>	<pre> graph TD Start(()) --> Step1{1 AC BUS 2(A) LIGHT ON?} Step1 -- NO --> Step4{4 ISOLATE INV FROM AFFECTED BUS} Step1 -- YES --> Step3{3 AC BUS 2(A) LIGHT ON?} Step3 -- YES --> Step3 Step3 -- NO --> Step4 Step4 --> Step5{5 INVERTER FAILURE} Step5 --> Step6{6 REPLACE FAILED INVERTER WITH BACKUP} Step6 --> Step7{7 CONTINUOUS OVERLOAD} Step7 --> Step8{8 ISOLATE INV BUS (A)(B)} </pre> <p>1 AC BUS 2(A) LIGHT ON?</p> <p>2 AC BUS 2(A) LIGHT ON?</p> <p>3 AC BUS 2(A) LIGHT ON?</p> <p>4 ISOLATE INV FROM AFFECTED BUS AC INVERTER 1 (2) ON-OFF MV BUS A RESET - RESET (MOMENTARY) MV BUS B RESET - RESET (MOMENTARY)</p> <p>5 INVERTER FAILURE</p> <p>6 REPLACE FAILED INVERTER WITH BACKUP AC BUS 2(A) LIGHT ON? SECTION (INVERTER CHANGE - 02)</p> <p>7 CONTINUOUS OVERLOAD</p> <p>8 ISOLATE INV BUS (A)(B)</p>	<p>① MV BUS (A) DISCONNECT LIGHT ON 19 DC VOLTS <math>V_{DC}</math> - 20V 20 7.5 7.5 7.5 3.5 7.5</p> <p>② AC BUS 2(A) LIGHT ON 19 DC VOLTS <math>V_{DC}</math> - 20V 20 7.5 7.5 7.5 3.5 7.5</p> <p>③ AC BUS DISCONNECT LIGHT ON 19 DC VOLTS <math>V_{DC}</math> - 20V 20 7.5 7.5 7.5 3.5 7.5</p> <p>④ INVERTER OVERLOAD INVERTER OVER FUL TBL 2.1 DISCONNECT INV 1 - CHECK FOR 100 TO 100 00 00</p>

G&N MALFUNCTION

SCS MALFUNCTION

SPS MALFUNCTION

RCS MALFUNCTION

EPS MALFUNCTION

T/C MALFUNCTION

ECS MALFUNCTION

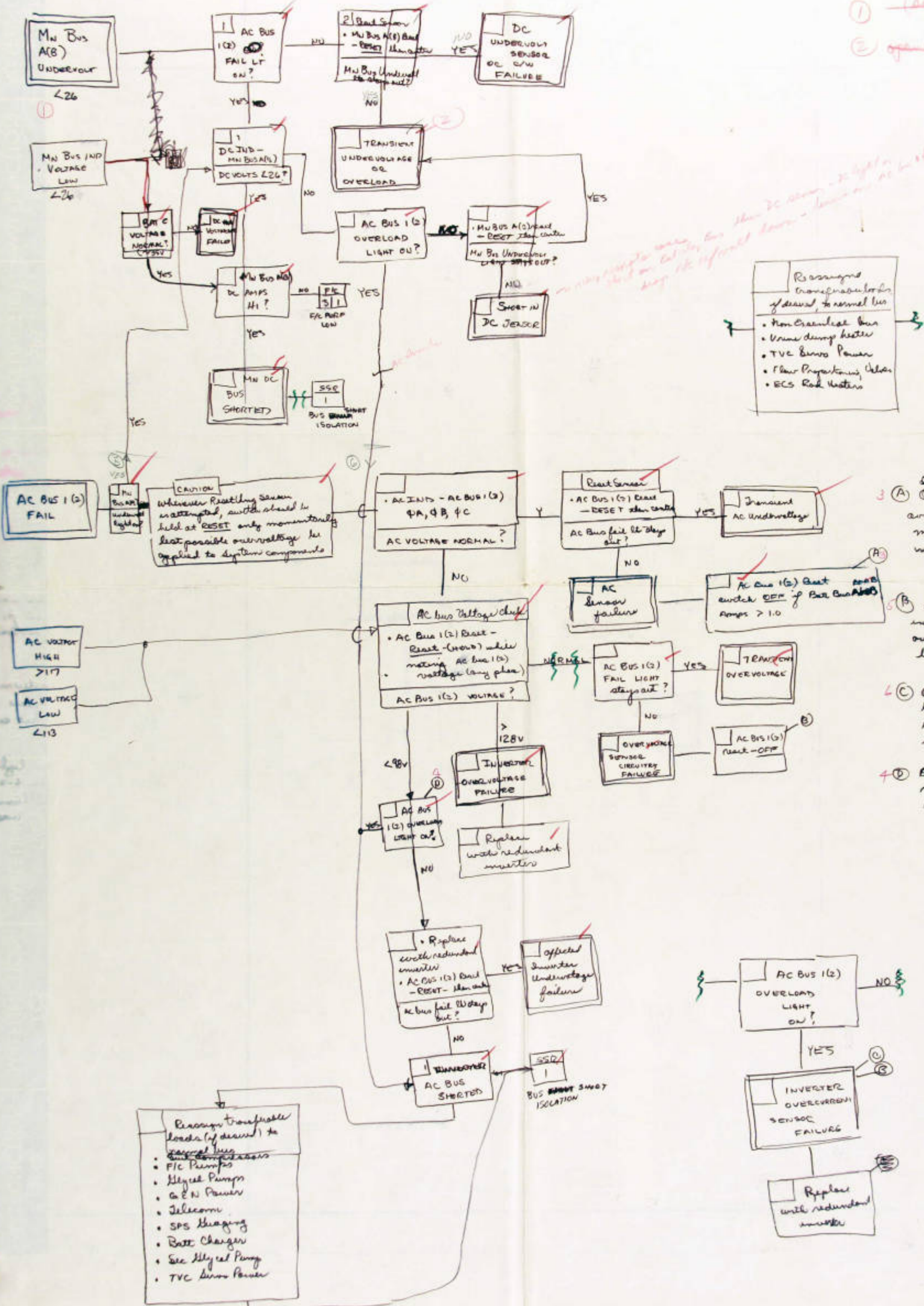
SEQ MALFUNCTION

ADMIN - 1ST Expires 9-15-81

1-6-7-8

EPS
12/9/67

8 Dec 67
NAA review
pls, cover, horiz



① (same)
② open CB may result

Assign transferable loads of desired to normal bus

- Non-essential bus
- Valve dump heater
- TVC Servo Power
- Flow Propulsion Helix
- ECS Rod Heaters

③ (A) Overload protection available but overvoltage may not provide adequate inverter disconnect

(B) Subsequent automatic inverter disconnect for overvoltage and overload load.

(C) ~~Reset~~ inverter may be used as spare of AC Bus (1) reset switch to OFF

(D) AC bus overload light may take from 6-12 seconds to reilluminate after AC bus has been reset.

