

G. E. DEMPSEY

8-18-66

V14-900111  
REVISION "C"  
FUNCTIONAL INTEGRATED  
SYSTEM SCHEMATICS  
SEQUENTIAL EVENTS CONTROL SUBSYSTEM  
SPACECRAFT 011

VOLUME 10

DOWNEY & ETR

THIS DRAWING REPLACES  
V14-900111, VOLUME 10  
DATED 12-28-65

DR BY	J. M. HICKS	4/8/66	NORTH AMERICAN AVIATION, INC. SPACE and INFORMATION SYSTEMS DIVISION 12214 LAKEWOOD BLVD., DOWNEY, CALIFORNIA		
CHK BY	692-703	X6205	FUNCTIONAL INTEGRATED SYSTEMS SCHEMATICS SEQUENTIAL EVENTS CONTROL SUBSYSTEM		
APPROVED BY					
R. C. KLEWENO	ACK 4-11-66		VIA - 900111		
		CODE IDENT NO. 03953	SIZE <b>A</b>		
<i>Willard E Toller</i>		SCALE	REVISION "C"	SHEET 10.1 OF 10	

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SC-011 DOWNEY & ETR	CODE IDENT NO. 03953	SIZE <b>A</b>	VI4 - 900111	VOL. 10
	SCALE	REV. "C"	SHEET	10.2

**CURRENT SHEET LIST**

**SHEET NUMBERS ACTIVE AT:**

<b>INITIAL RELEASE</b>	<b>REV. "A"</b>	<b>REV. "B"</b>	<b>REV. "C"</b>	<b>REV. "D"</b>		
10.1	10.1 A	10.1 B	10.1 C			
10.2	10.2 A	10.2 B	10.2 C			
10.3	10.3 A	10.3 B	10.3 C			
10.4	10.4 A	10.4 B	10.4 C			
10.5	10.5 A	10.5 B	10.5 C			
10.5.1	10.6 A	10.6 B	10.6 C			
10.5.2	10.7 A	10.7 B	10.7 C			
10.5.3	10.8 A	10.8 B	10.8 C			
10.6	10.9 A	10.9 B	10.9 C			
10.7	10.10 A	10.10 B	10.10 C			
10.7.1						
10.7.2						
10.8						
10.9						
10.10						
10.11						
10.12						
17	10	10	10			

**TOTAL SHEETS**

SC-011 DOWNEY & ETR	<b>CODE IDENT NO.</b> 03953	<b>SIZE</b> <b>A</b>	VI4 - 900111		VOL. 10
	<b>SCALE</b>	<b>REV. "C"</b>	<b>SHEET</b>	10.3	

## REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
	1. MAY BE REWORKED                      3. RECORD CHANGE 2. CANNOT BE REWORKED                4. NOW SHOP PRACTICE 5. PARTS MADE OK	D I S P O S	
A	COMPLETE REVISION TO INCORPORATE LATEST CHANGES.	3	7-27-65 <i>R. Glenn</i>
B	COMPLETE REVISION TO INCORPORATE LATEST CHANGES, TO INCLUDE MCR 1031.	3	1-11-66 <i>R. Glenn</i>
C	COMPLETE REVISION TO INCORPORATE CHANGES MADE DURING SPACECRAFT CHECKOUT.	3	4-11-66 <i>R. Glenn</i>

SC-011  
DOWNEY & ETR

CODE IDENT NO.  
03953

SIZE  
**A**

V14 - 900111

VOL. 10

SCALE

REV. "C"

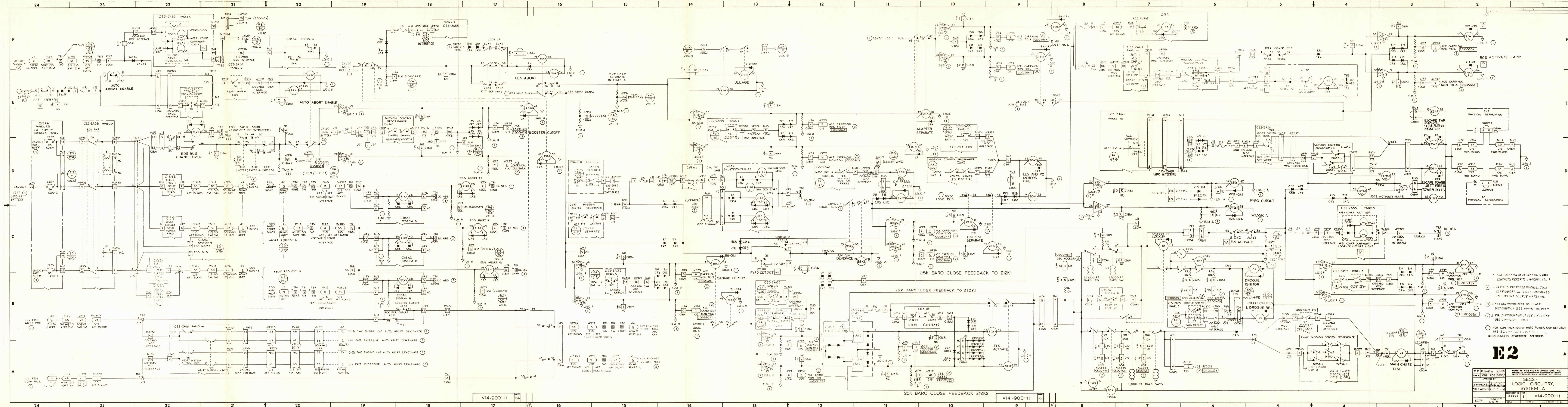
SHEET

10.4

# NOTES

1. UNDERLINED LETTERS DENOTE LOWER CASE.
2. ALL RELAY CONTACTS ARE SHOWN IN THE DE-ENERGIZED OR UNLATCHED POSITION.
3. DIAGRAMS DEPICT DOWNEY AND ETR CONFIGURATION ONLY.
4. THIS DRAWING REQUIRES NO IDENTIFICATION AND TRACEABILITY REQUIREMENTS.
5. ALL SYMBOLOGY UTILIZES MIL-STD-15-1 SUPPLEMENTED BY B14-900005.
6. FOR NEXT USING DRAWING AND INTEGRATED SCHEMATICS FOR OTHER VEHICLES,  
REFER TO: V14-900000.
7. ALL RESISTANCE VALUES STATED IN OHMS.

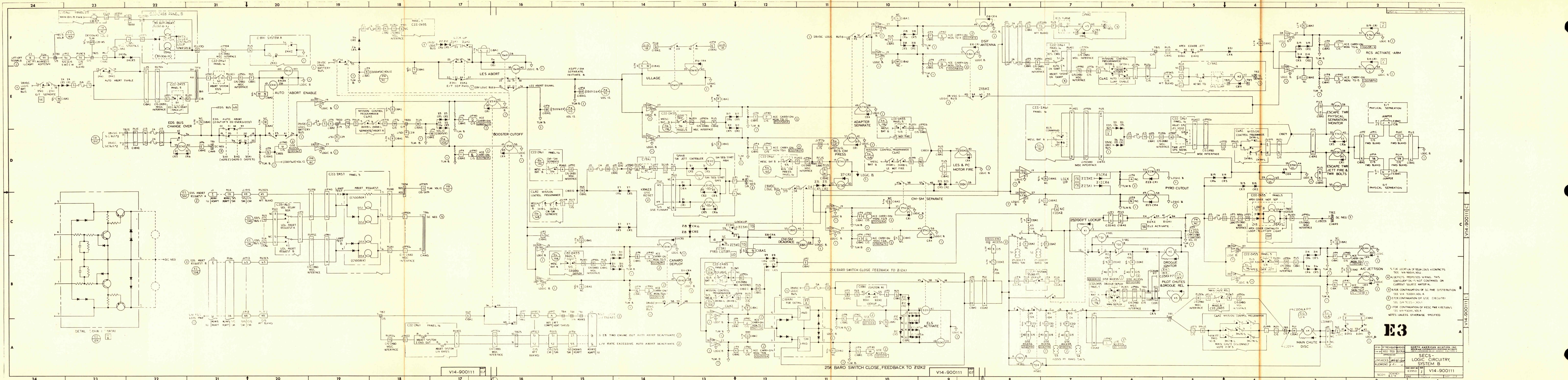
SC-011 DOWNEY & ETR	CODE IDENT NO. 03953	SIZE <b>A</b>	V14 - 900111	VOL. 10
	SCALE	REV. "C"	SHEET	10.5



- 1 FOR LOCATION OF RELAY COILS AND CONTACTS REFER TO V14-900111, VOL. 1
  - 2 DEF CTS PREPOSED WIRING, THIS CONFIGURATION IS NOT CONTAINED IN CURRENT SOURCE MATERIAL
  - 3 FOR CONTINUATION OF DC POWER DISTRIBUTION SEE V14-900111, VOL. 1
  - 4 FOR CONTINUATION OF J55C CIRCUITRY SEE G14-10211, VOL. 1
  - 5 FOR CONTINUATION OF MISC. POWER AND RETURNS SEE E14-10211, VOL. 1
- NOTES: UNLESS OTHERWISE SPECIFIED

REV	BY	DATE	DESCRIPTION
1	R. SMITH	10/20/50	INITIAL DESIGN
2	J. MACKAY	11/15/50	REVISED FOR MANUFACTURE
3	E. LEWIS	12/10/50	REVISED FOR MANUFACTURE

**E2**  
 LOGIC CIRCUITRY  
 SYSTEM A  
 V14-900111  
 93953 J



- 5. FOR LOCATION OF RELAY COILS & CONTACTS SEE V14-900111, VOL. 4
- 6. UNLESS OTHERWISE SPECIFIED, THIS CONTRIBUTION IS NOT CONTAINED ON CURRENT SOURCE MATERIAL.
- 7. FOR CONTINUATION OF DC PWR DISTRIBUTION SEE V14-900111, VOL. 4
- 8. FOR CONTINUATION OF GSE CIRCUITRY SEE V14-900111, VOL. 4
- 9. FOR CONTINUATION OF MESC PWR RETURN'S SEE V14-900111, VOL. 4

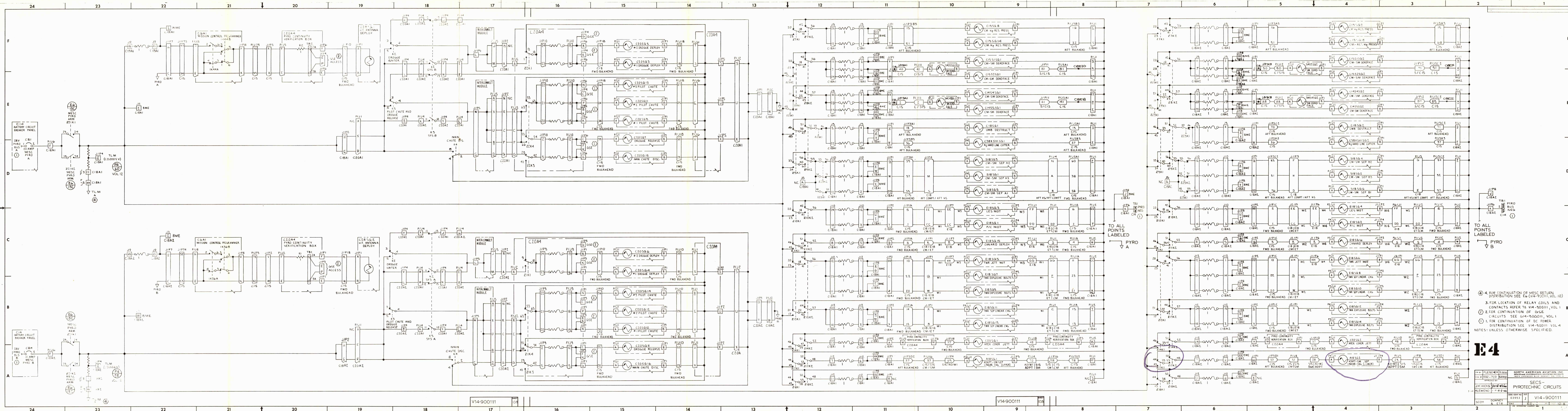
**E3**

REV. 1	TREMBLAY	REVISED
REV. 2	HICKS	REVISED
REV. 3	DOANEY	REVISED
REV. 4	DOANEY	REVISED
REV. 5	DOANEY	REVISED
REV. 6	DOANEY	REVISED
REV. 7	DOANEY	REVISED
REV. 8	DOANEY	REVISED
REV. 9	DOANEY	REVISED
REV. 10	DOANEY	REVISED
REV. 11	DOANEY	REVISED
REV. 12	DOANEY	REVISED
REV. 13	DOANEY	REVISED
REV. 14	DOANEY	REVISED
REV. 15	DOANEY	REVISED
REV. 16	DOANEY	REVISED
REV. 17	DOANEY	REVISED
REV. 18	DOANEY	REVISED
REV. 19	DOANEY	REVISED
REV. 20	DOANEY	REVISED
REV. 21	DOANEY	REVISED
REV. 22	DOANEY	REVISED
REV. 23	DOANEY	REVISED
REV. 24	DOANEY	REVISED
REV. 25	DOANEY	REVISED
REV. 26	DOANEY	REVISED
REV. 27	DOANEY	REVISED
REV. 28	DOANEY	REVISED
REV. 29	DOANEY	REVISED
REV. 30	DOANEY	REVISED
REV. 31	DOANEY	REVISED
REV. 32	DOANEY	REVISED
REV. 33	DOANEY	REVISED
REV. 34	DOANEY	REVISED
REV. 35	DOANEY	REVISED
REV. 36	DOANEY	REVISED
REV. 37	DOANEY	REVISED
REV. 38	DOANEY	REVISED
REV. 39	DOANEY	REVISED
REV. 40	DOANEY	REVISED
REV. 41	DOANEY	REVISED
REV. 42	DOANEY	REVISED
REV. 43	DOANEY	REVISED
REV. 44	DOANEY	REVISED
REV. 45	DOANEY	REVISED
REV. 46	DOANEY	REVISED
REV. 47	DOANEY	REVISED
REV. 48	DOANEY	REVISED
REV. 49	DOANEY	REVISED
REV. 50	DOANEY	REVISED

V14-900111

V14-900111

**SECS-LOGIC CIRCUITRY SYSTEM B**  
 NORTH AMERICAN AVIATION, INC.  
 3195 J V14-900111

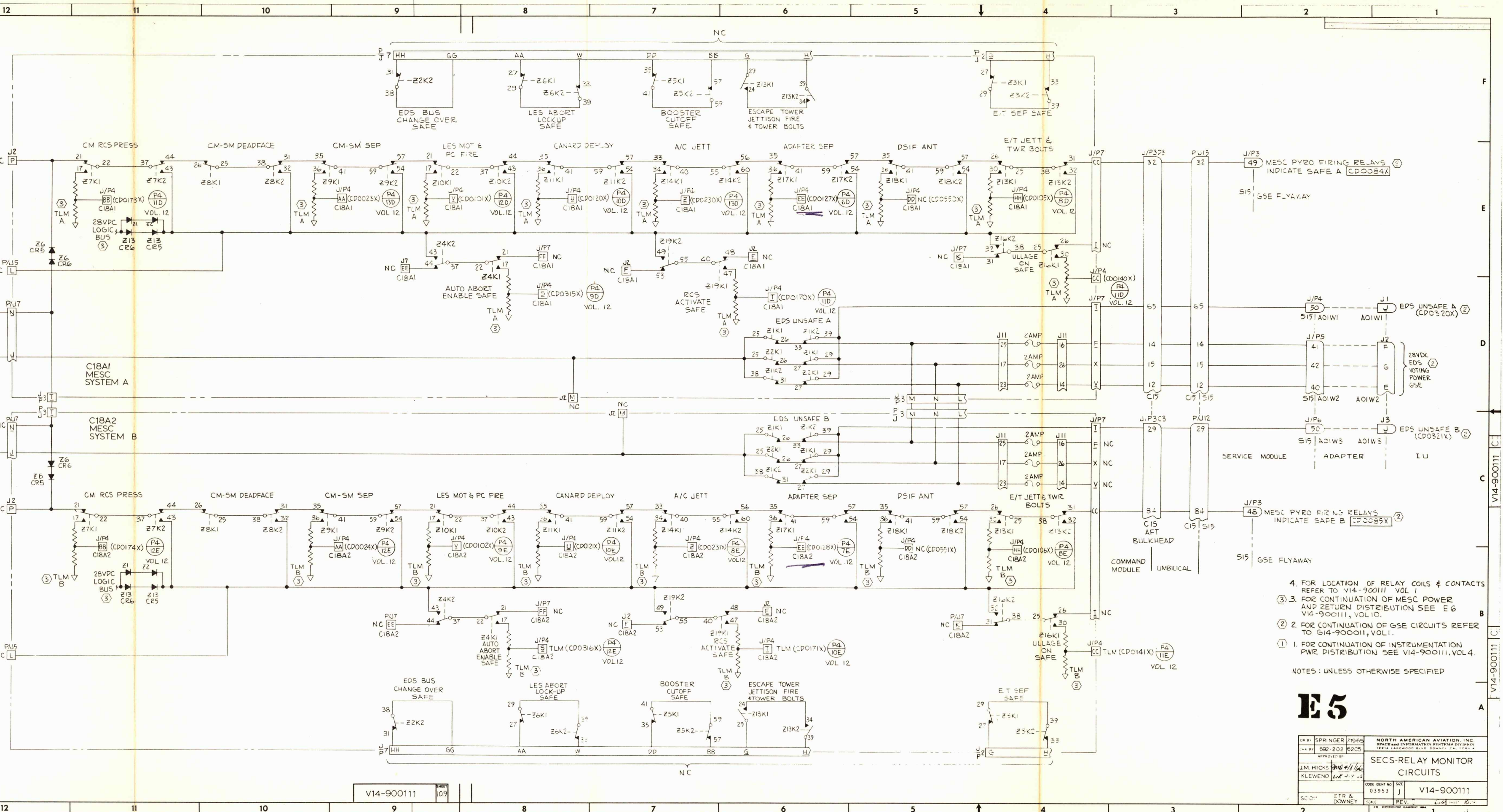
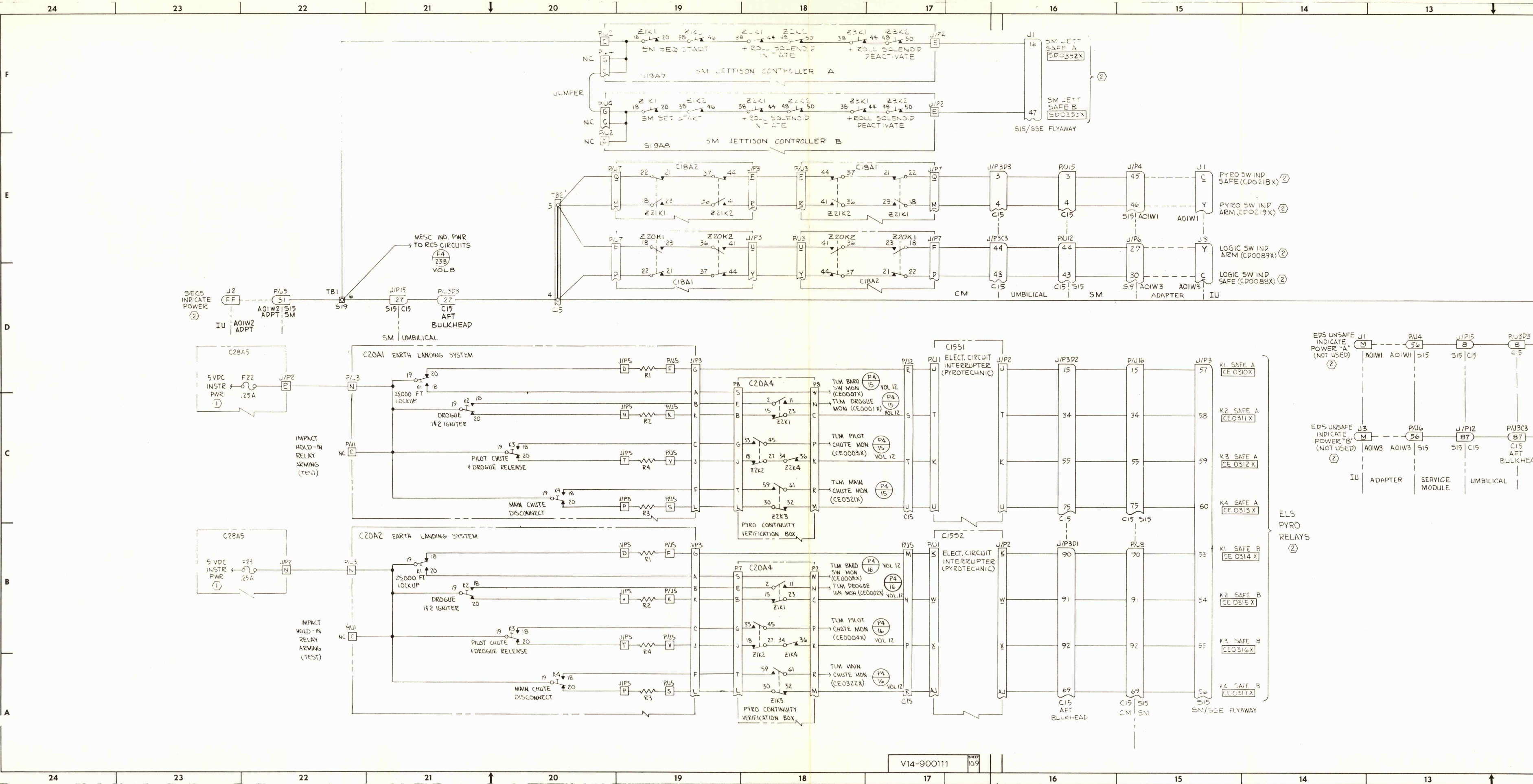


4. FOR CONTINUATION OF MESC RETURN DISTRIBUTION SEE E6 (V14-900111, VOL. 10)  
 3. FOR LOCATION OF RELAY COILS AND CONTACTS REFER TO V14-900111, VOL. 1  
 2. FOR CONTINUATION OF GSE CIRCUITS SEE G14-900011, VOL. 1  
 1. FOR CONTINUATION OF DC POWER DISTRIBUTION SEE V14-900111 VOL. 4  
 NOTES: UNLESS OTHERWISE SPECIFIED.

REV	BY	DATE	DESCRIPTION
1	FLEISCHER	1/10/51	INITIAL DESIGN
2	WELAND	2/1/51	REVISED TO SHOW CHANGES
3	WELAND	2/1/51	REVISED TO SHOW CHANGES
4	WELAND	2/1/51	REVISED TO SHOW CHANGES
5	WELAND	2/1/51	REVISED TO SHOW CHANGES
6	WELAND	2/1/51	REVISED TO SHOW CHANGES
7	WELAND	2/1/51	REVISED TO SHOW CHANGES
8	WELAND	2/1/51	REVISED TO SHOW CHANGES
9	WELAND	2/1/51	REVISED TO SHOW CHANGES
10	WELAND	2/1/51	REVISED TO SHOW CHANGES
11	WELAND	2/1/51	REVISED TO SHOW CHANGES
12	WELAND	2/1/51	REVISED TO SHOW CHANGES
13	WELAND	2/1/51	REVISED TO SHOW CHANGES
14	WELAND	2/1/51	REVISED TO SHOW CHANGES
15	WELAND	2/1/51	REVISED TO SHOW CHANGES
16	WELAND	2/1/51	REVISED TO SHOW CHANGES
17	WELAND	2/1/51	REVISED TO SHOW CHANGES
18	WELAND	2/1/51	REVISED TO SHOW CHANGES
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21	WELAND	2/1/51	REVISED TO SHOW CHANGES
22	WELAND	2/1/51	REVISED TO SHOW CHANGES
23	WELAND	2/1/51	REVISED TO SHOW CHANGES
24	WELAND	2/1/51	REVISED TO SHOW CHANGES

NORTH AMERICAN AVIATION, INC.  
 3950 WASHINGTON BLVD., WASHINGTON, D. C.  
 SECS-PYROTECHNIC CIRCUITS  
 V14-900111  
 03953 J

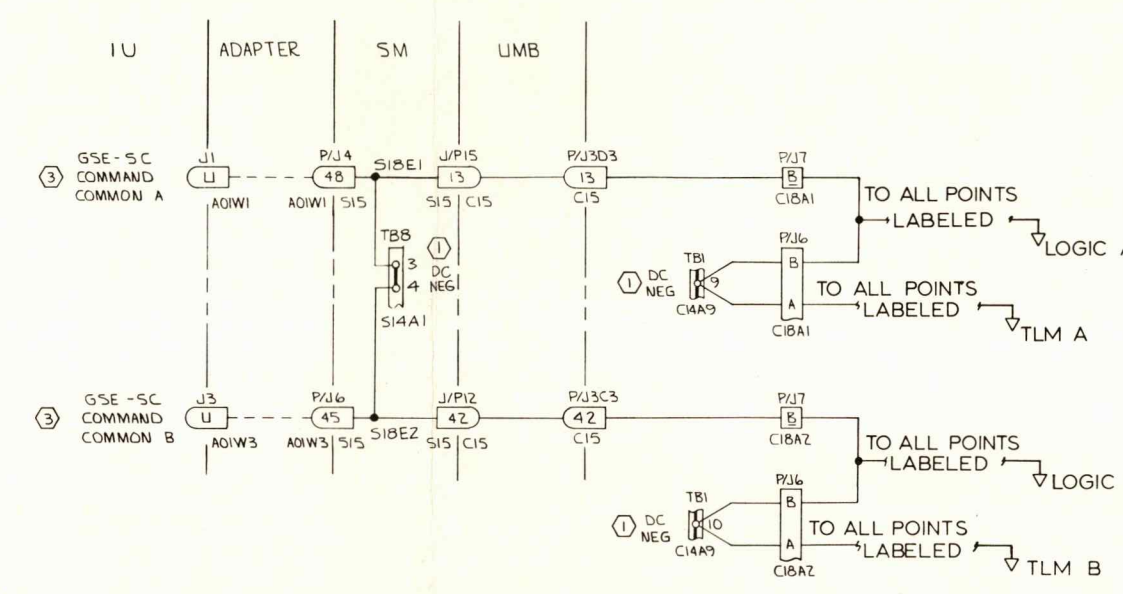
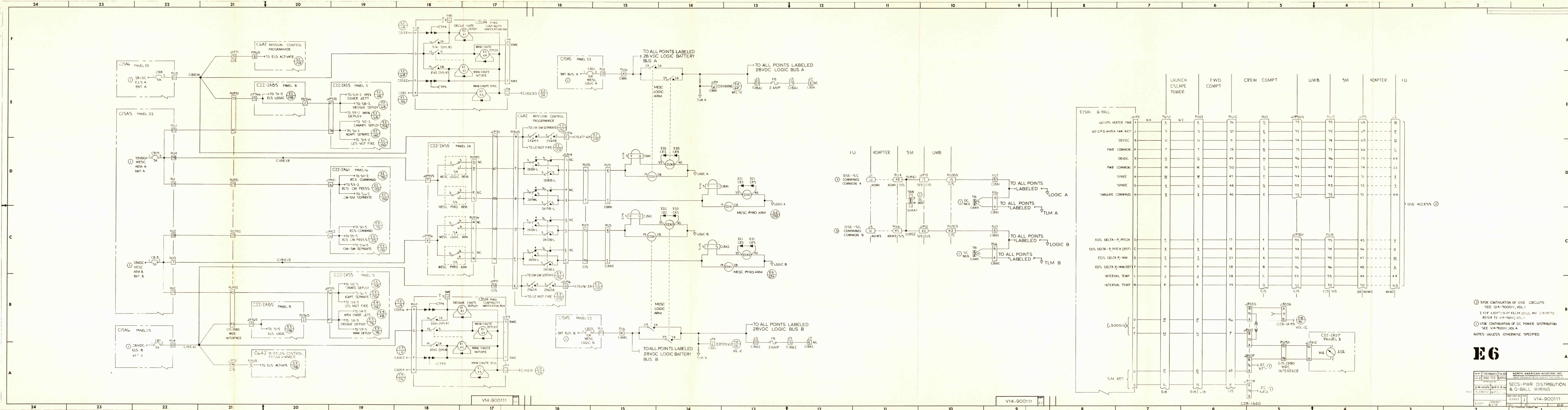




# E5

<small>         PREPARED BY:          SPRINGER 12/64          692-202 R2C2          APPROVED BY:          JIM HICKS 12/74          KLEWEND 12/74       </small>	<small>         NORTH AMERICAN AVIATION, INC.          MILITARY AIRCRAFT DIVISION          14500 BROADVIEW AVENUE          TORONTO, ONTARIO          M9W 4R6 CANADA       </small>
<small>         TITLE:          SECS-RELAY MONITOR          CIRCUITS       </small>	<small>         DRAWING NO:          V14-900111       </small>
<small>         DATE:          10/67       </small>	<small>         DESIGNED BY:          J.M.       </small>
<small>         CHECKED BY:          J.M.       </small>	<small>         AUTHORITY:          03953       </small>

- NOTES: UNLESS OTHERWISE SPECIFIED
1. FOR CONTINUATION OF INSTRUMENTATION PWR DISTRIBUTION SEE V14-900111, VOL 4.
  2. FOR CONTINUATION OF GSE CIRCUITS REFER TO G14-900111, VOL 1.
  3. FOR CONTINUATION OF MESC POWER AND SEQUON DISTRIBUTION SEE V14-900111, VOL 1C.
  4. FOR LOCATION OF RELAY COILS & CONTACTS REFER TO V14-900111, VOL 1.



E15A1 Q-BALL	J1/P5	W4	P6/W1	W2	P1A2	P1C1C	P1A2	P1A2	J1/P5D5	P1A5	W4	G
60 CPS HEATER PWR	K	5	5	5	37	E	92	92	92	92	92	E
60 CPS WATER PWR RET	J	5	5	5	37	E	92	92	92	92	92	E
28VDC	B	U	U	U	9	A	74	74	74	74	74	D
PWR COMMON	A	T	T	T	19	B	73	73	73	73	73	K
28VDC	R	G	G	G	49	H	96	96	96	96	96	CC
PWR COMMON	P	M	M	M	50	L	97	97	97	97	97	JJ
SPARE	H	W	W	W	47	E	94	94	94	94	94	Z
SPARE	G	Y	Y	Y	46	G	95	95	95	95	95	Y
SIMULATE COMMAND	N	Z	Z	Z	40	E	75	75	75	75	75	HH
EDS DELTA-P PITCH	D	Y	Y	Y	17	Y	93	93	93	93	93	V
EDS DELTA-P PITCH (REF)	C	X	X	X	18	Z	94	94	94	94	94	H
EDS DELTA-P-RW	E	I	I	I	27	A	95	95	95	95	95	W
EDS DELTA-P-RW (REF)	F	P	P	P	28	B	96	96	96	96	96	X
INTERNAL TEMP	L	J	J	J	38	C	53	53	53	53	53	AA
INTERNAL TEMP	W	R	R	R	59	D	52	52	52	52	52	SG
(LS000IV)	V	E	E	E	46	F	42	42	42	42	42	AA
TLM RET	S	N	N	N	45	S	51	51	51	51	51	SG

③ FOR CONTINUATION OF GSE CIRCUITS  
SEE G14-900111, VOL 1  
2 FOR LOCATION OF RELAY COILS AND CONTACTS  
REFER TO 900111, VOL 1  
① FOR CONTINUATION OF DC POWER DISTRIBUTION  
SEE V14-900111, VOL A  
NOTES UNLESS OTHERWISE SPECIFIED

**EG**

DATE: 1968MAY 14	BY: J.M. WILKES	APP'D: J.M. WILKES	REV: 1
NO. 692-703	REV. 1	DATE: 1968MAY 14	BY: J.M. WILKES
NORTH AMERICAN AVIATION, INC. SPACE AND INFORMATION SYSTEMS DIVISION 1000 AVIATION BLVD., WASHINGTON, D.C. 20045			
SECS-PWR DISTRIBUTION & Q-BALL WIRING			
DATE: 1968MAY 14	BY: J.M. WILKES	APP'D: J.M. WILKES	REV: 1
NO. 692-703	REV. 1	DATE: 1968MAY 14	BY: J.M. WILKES
V14-900111			

