

SAN/0499-86
MDC H0130

**10 MWe Solar Thermal
Central Receiver Pilot Plant
Solar Facilities Design Integration**

**MASTER CONTROL SYSTEM
AS-BUILT DRAWINGS (RADL ITEM 6-5)
VOLUME 5 — INTERLOCK LOGIC SYSTEM (ILS)**

September 1982

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**MCDONNELL DOUGLAS ASTRONAUTICS COMPANY
5301 BOLSA AVENUE
HUNTINGTON BEACH, CA 92647**

**PREPARED FOR THE
U.S. DEPARTMENT OF ENERGY
SOLAR ENERGY
UNDER CONTRACT DE-AC03-79SF10499**

(12) 9/16/82

MCDONNELL DOUGLAS AERONAUTICS COMPANY

ENERGY PROGRAMS

5301 Bolsa Avenue, Huntington Beach, California 92647 (714) 896-3311 Telex: 678426

13 September 1982
A3-130-EP-DSB-330

Department of Energy
San Francisco Operations Office
1333 Broadway
Oakland, California 94612

Attention: Mr. Fred Sass, Contracting Officer

Subject: CONTRACT DE-AC03-79SF10499
SOLAR FACILITIES DESIGN INTEGRATION
SUBMITTAL OF MASTER CONTROL SYSTEM AS-BUILT DRAWINGS
(RADL ITEM 6-5)

Reference: MDAC Letter A3-130-EP-DSB-168, dated 12 May 1982;
Subject: Distribution Requirements for Remaining
Phase II RADL Items

Dear Mr. Sass:

Two (2) copies of the subject RADL item are being submitted in accordance with the requirements of the Reference Letter. These drawings represent the as-built configuration of the hardware and software elements comprising the master control system provided by the SFDI for the pilot plant.

The RADL item has been organized into five volumes, as follows:

Volume 1 - Software Listings

Section 1 - Master Information File (MIF) and Beam
Characterization System (BCS)

Section 2 - Data Acquisition System (DAS), Parts 1 and 2

Volume 2 - Data Acquisition Remote Multiplexing System (DARMS),
Special Heliostat Instrumentation and Meteorological
Measurements System (SHIMMS), and Red Line Units (RLU's)

Volume 3 - Data Acquisition System (DAS), Operating Control System
(OCS), and Timing System

Volume 4 - System Distributed Process Control System (SDPC)

Section 1 - Specification and Configuration

Section 2 - Configuration Control Module (CCM) Data Bases

Section 3 - Drawings

Volume 5 - Interlock Logic System (ILS)

-2-

Technical questions concerning this document should be directed to D. W. Pearson at (714) 896-3065. Contractual questions should be directed to the undersigned at (714) 896-1340.

Very truly yours,



D. S. Butler
Contract Administrator
SFDI Program

DSB:RGR:dd

Enclosure: Master Control System As-Built Drawing, RADL Item 6-5

ec: S. D. Elliott, DOE (1 copy)
Paul Douglas, SCE (1 copy)

MCDONNELL DOUGLAS



PREFACE

This document is provided by the McDonnell Douglas Astronautics Company (MDAC) in accordance with Department of Energy Contract No. DE-AC03-79SF10499, Reports and Deliverables List, Item 6-5.

The information contained in this document represents the "as-built" configuration of the master control system. The document has been organized into five volumes, as follows:

Volume 1 - Software Listings

Section 1 - Master Information File (MIF) and Beam
Characterization System (BCS)

Section 2 - Data Acquisition System (DAS), Parts 1 and 2

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and Timing System

Volume 4 - System Distributed Process Control System (SDPC)

Section 1 - Specification and Configuration

Section 2 - CCM Data Bases

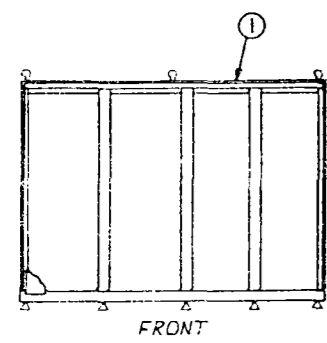
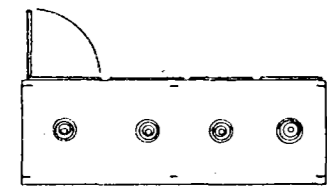
Section 3 - Drawings

Volume 5 - Interlock Logic System (ILS)

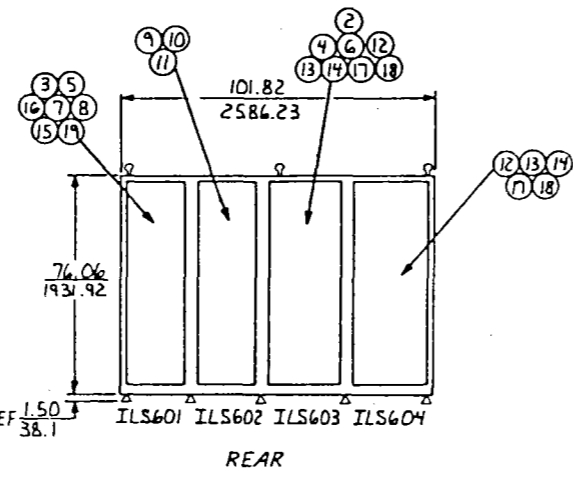
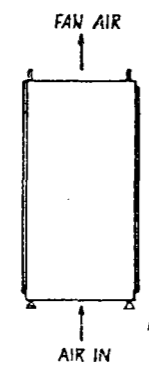
Questions concerning this document should be directed to D.W. Pearson at (714)
896-3065.

DRAWING NO. 1D44754
ILS ASSEMBLY

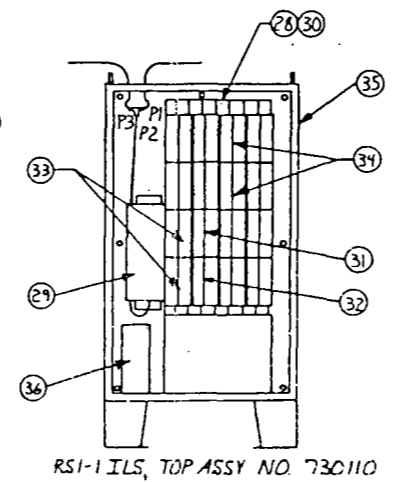
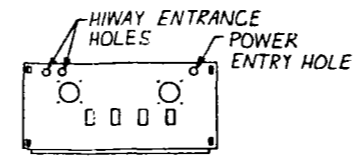
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	SEE E.O.		
B	SEE E.O.		
C	SEE E.O.		



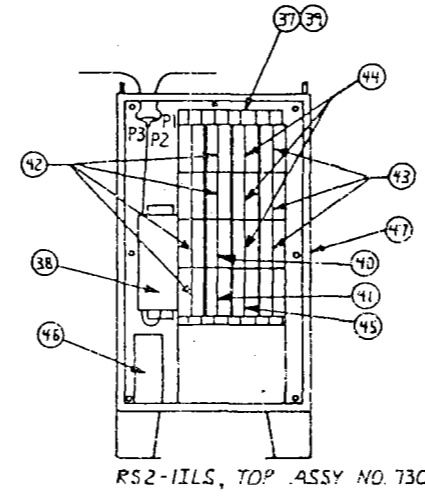
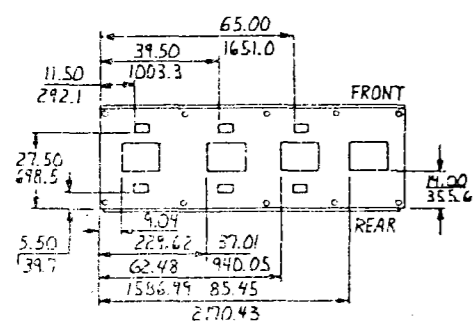
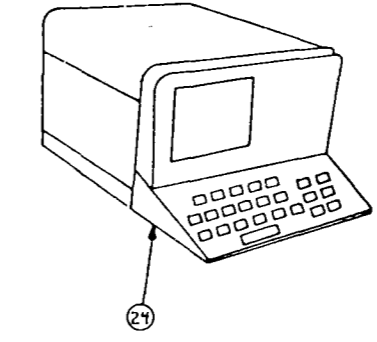
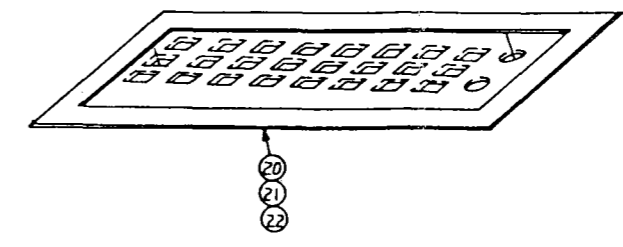
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REAR

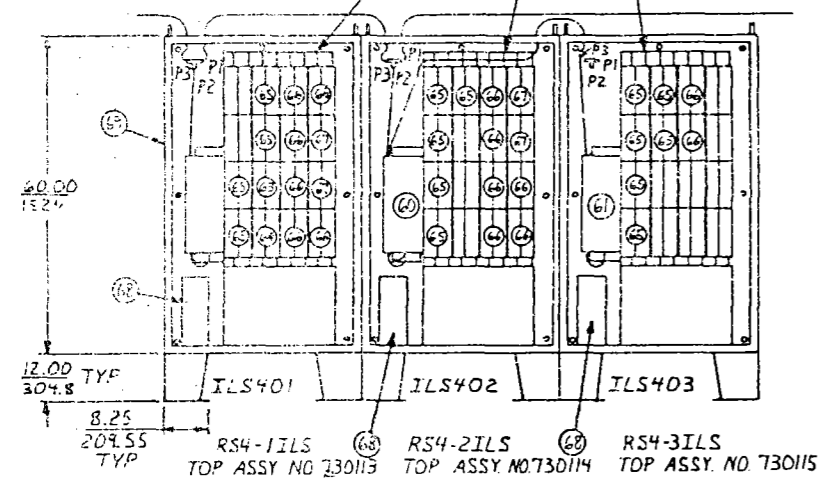
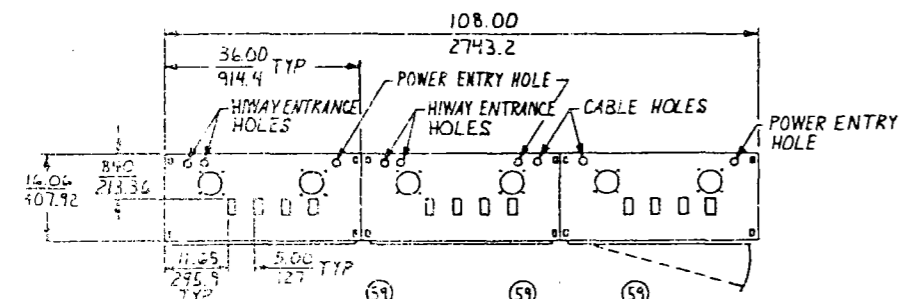


RS1-1 ILS, TOP ASSY NO. 730110

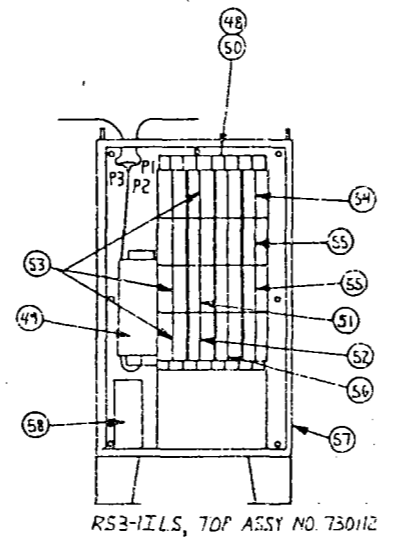


RS2-1 ILS, TOP ASSY NO. 730111

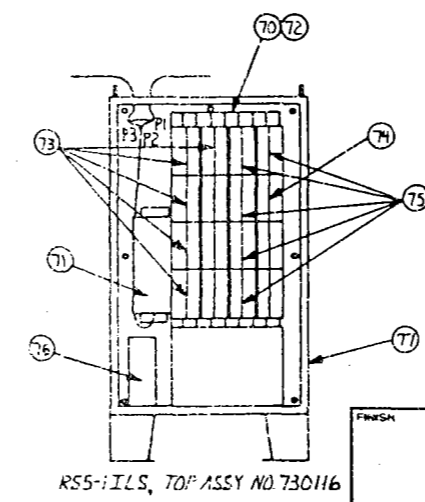
NOTES:
 1. THIS IS A MAKE FROM DRAWING OF BECKMAN INSTRUMENT DRAWINGS OSC-730109 AND 449-730110.
 2. FOR FUNCTION INTERFACE IDENTIFICATION REF 1044753.



RS4-1 ILS TOP ASSY NO. 730113
 RS4-2 ILS TOP ASSY NO. 730114
 RS4-3 ILS TOP ASSY NO. 730115



RS3-1 ILS, TOP ASSY NO. 730112

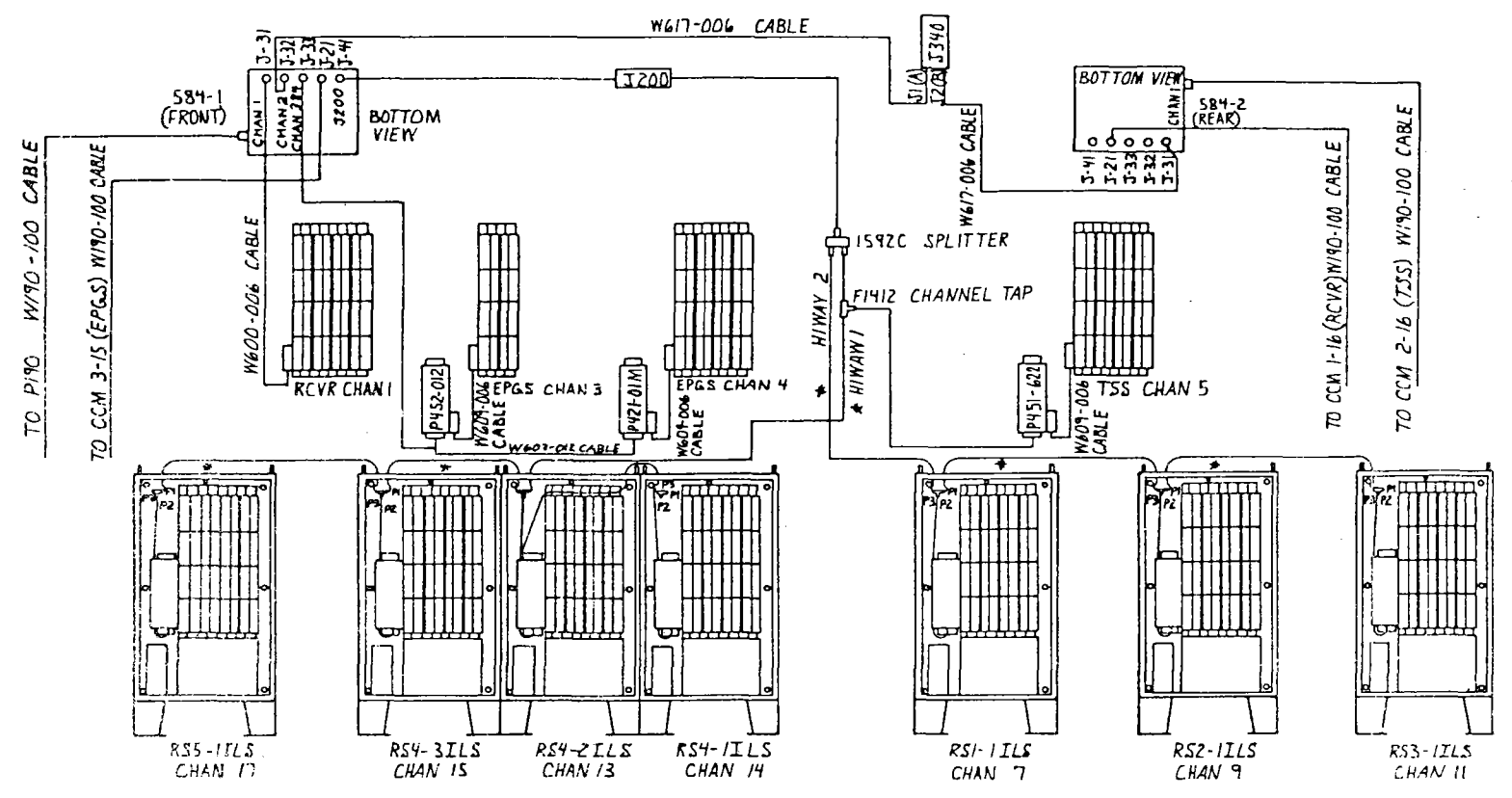


RS5-1 ILS, TOP ASSY NO. 730116

SEE SEPARATE PARTS LIST			
FINISH	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES	CONTRACT NO.	MCDONNELL DOUGLAS AERONAUTICS COMPANY
		ORIGINAL DATE OF DRAWING	INTERLOCK LOGIC
TOLERANCES 2 PLACE DEC ± 3 PLACE DEC ± ANGLES ±	MATERIAL	FIRST RELEASE OF PRINTS	SUBSYSTEM ASSEMBLY
		PREPARED BY E. DEL PORTILLO	
APPROVED BY J. H. DAVIS	DATE 11/1/62	SIZE	D
CHECKED BY J. H. DAVIS	DATE 11/1/62	FSCM NO.	18355
DESIGN ACTIVITY APPROVAL		DRAWING NO.	1044754
CUSTOMER APPROVAL		SCALE	NONE
			SHEET 1 OF 2

SHEET 1 OF 2

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
SEE E.O.			
C			



INTERCONNECT DIAGRAM

ITEM	QTY	DESCRIPTION	BECKMAN MAKE FROM PART NO.	NOTES
1	1	FOUR BAY MAIN ILS MOUNTING PANEL	771718	
2	2	PROGRAMMABLE LOGIC CONTROLLERS		MODEL 584A-S04-Y24-A2L
3	4	CABLE ASSEMBLIES	W190-100	
4	1	MAINFRAME COMMUNICATOR	J340-000	
5	2	MAINFRAME TO COMMUNICATOR CABLE ASSY	W617-006	
6	1	I/O EXPANDER WITH CABLE ASSY	J200-001	
7	1	MAINFRAME TO I/O HOUSING CABLE	W600-006	
8	3	POWER SUPPLY TO I/O HOUSING CABLE	W609-006	
9	1	AUXILIARY POWER SUPPLY	P452-612	
10	1	AUXILIARY POWER SUPPLY	P421-01M	
11	1	REMOTE I/O DROP	P451-622	
12	12	I/O CHANNELS	B240-000	200 SERIES
13	9	INPUT MODULE	B233-001 24VDC	
14	28	OUTPUT MODULE	B232-001 24VDC	
15	1	POWER SUPPLY 24VDC WITH PROTECTED DISTRIBUTION		
16	3	MAINFRAME MULTIPLEXORS		IPAC MODEL 1500
17	28	DIGITAL INPUT CARDS		
18	6	TERMINAL BOARDS		
19	3	SERIAL LINE CONTROLLERS		
20	3	CUSTOM SWITCH PANELS WITH COMPLETE ILS TO MASTER CONTROL CONSOLE CABLING	771719	
21	2	PANEL ASSY., SWITCH-SINGLE	730150	
22	1	PANEL ASSY., SWITCH-DUAL	730151	
23	1	ACCESSORIES, PROGRAMMING	771720	
24	1	MULTIFAMILY PROGRAMMER WITH TAPE LOADER TAPE	P190-112	
25	1	584 PROGRAMMER TAPE	T584-001	
26	1	584 UTILITY TAPE	T584-002	
27	6	BLANK TAPE CARTRIDGES	T190-000	
28	1	REMOTE ILS I/O PANEL	771721	
29	1	REMOTE I/O DROP	B451-622	
30	4	I/O CHANNELS	B240-000	200 SERIES
31	1	ANALOG INPUT MODULE	B243-105	
32	1	ANALOG MULTIPLEXOR	B258-001	
33	2	INPUT MODULE	B233-001	
34	2	OUTPUT MODULE	B232-001	
35	1	MOUNTING BOX		
36	1	POWER SUPPL., 24VDC, WITH PROTECTED DISTRIBUTION		
37	1	REMOTE ILS I/O PANEL	771722	
38	1	REMOTE I/O DROP	B451-622	
39	4	I/O CHANNELS	B240-000	200 SERIES
40	1	ANALOG INPUT MODULE	B243-105	
41	1	ANALOG MULTIPLEXOR	B258-001	
42	4	INPUT MODULE	B233-001	
43	3	OUTPUT MODULE	B232-001	
44	3	OUTPUT MODULE	B246-101	
45	1	OUTPUT MODULE	B266-001	
46	1	POWER SUPPLY 24VDC WITH PROTECTED DISTRIBUTION		
47	1	MOUNTING BOX		
48	1	REMOTE ILS I/O PANEL	771723	
49	1	REMOTE I/O DROP	B451-622	
50	4	I/O CHANNELS	B240-000	200 SERIES
51	1	ANALOG INPUT MODULE	B243-105	
52	1	ANALOG MULTIPLEXOR	B258-001	

ITEM	QTY	DESCRIPTION	BECKMAN PART NO.	NOTES
72	4	I/O CHANNELS	B240-000	200 SERIES
73	5	INPUT MODULE	B233-001	
74	1	OUTPUT MODULE	B266-001	
75	5	OUTPUT MODULE	B246-101	
76	1	POWER SUPPLY 24VDC WITH PROTECTED DISTRIBUTION		
77	1	MOUNTING BOX		

ITEM	QTY	DESCRIPTION	BECKMAN PART NO.	NOTES
53	3	INPUT MODULE	B233-001	
54	2	OUTPUT MODULE	B232-001	
55	1	OUTPUT MODULE	B246-101	
56	1	OUTPUT MODULE	B266-001	
57	1	MOUNTING BOX		
58	1	POWER SUPPLY 24VDC WITH PROTECTED DISTRIBUTION		
59	1	REMOTE ILS PANEL	771724	
60	1	REMOTE I/O DROP	P451-622	
61	1	AUXILIARY POWER SUPPLY	P453-125	
62	14	I/O CHANNELS	B240-000	200 SERIES
63	1	ANALOG INPUT MODULE	B243-105	
64	1	ANALOG MULTIPLEXOR	B258-001	
65	15	INPUT MODULE	B233-001	
66	14	OUTPUT MODULE	B246-101	
67	4	OUTPUT MODULE	B266-001	
68	1	POWER SUPPLY, 24VDC, WITH PROTECTED DISTRIBUTION		
69	3	MOUNTING BOXES		
70	1	REMOTE ILS PANEL	771725	
71	1	REMOTE I/O DROP	B451-622	

FINISH	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES	CONTRACT NO.		SEE SEPARATE PARTS LIST	
		TOLERANCES 3 PLACE DEC ± 3 PLACE DEC ± ANGLES ±		MCDONNELL DOUGLAS AERONAUTICS COMPANY MCDONNELL DOUGLAS	
000 DASH NUMBERS SHOWN EVEN DASH NUMBERS OPPOSITE	MATERIAL	ORIGINAL DATE OF DRAWING 82-04-26		FIRST RELEASE OF PRINTS	
		PREPARED		APPROVED	
PART OR IDENT NO.		CHECKED	DESIGN ACTIVITY APPROVAL	SIZE D	FSCM NO. 18355
FOR USAGE DATA SEE ENGINEERING RECORDS		CUSTOMER APPROVAL		DRAWING NO. 1044754	SHEET 2 OF 2

SHEET 2

DRAWING NO. 1D44789
ILS CONFIGURATION DATA BASE

SH
DWG NO. ID44789

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
MR* A	SEE EO	9-17-81	Man
B	SEE EO		WHD
MR* C	SEE EO		WHD
G	SEE SH. 1.1		

PRODUCTION AUTH: CCN	
BY	DATE
PLANNING LEVEL	QA
ADDITIONAL INSTRUCTIONS:	
MODEL	D/R NEXT ASSEMBLY F/A EFF.
APPLICATION	

MIL-D-1000A LEVEL 1 DRAWING

MATERIAL	CONTRACT NO.		MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	
	ORIGINAL DATE OF DRAWING 81-04-10			
	FIRST RELEASE OF PRINTS 81-07-31		SDPC INTERLOCK LOGIC SUBSYSTEM CONFIGURATION DATA BASE	
ODD DASH NUMBERS SHOWN EVEN DASH NUMBERS OPPOSITE	PREPARED MIRZA, M.A. 7-30-81	APPROVED <i>[Signature]</i> 7-30-81		
PART OR IDENT NO.	CHECKED <i>[Signature]</i> 7-30-81	SIZE	FSCM NO.	DRAWING NO.
	DESIGN ACTIVITY APPROVAL	A	18355	ID44789
FOR USAGE DATA SEE ENGINEERING RECORDS	CUSTOMER APPROVAL	SCALE	SHEET 1 OF 389	

SHEET REVISION RECORD

SHEET NO.	REVISION									
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1.2	A		C	D	E	F	G			
1.3	A		C	D	E	F	G			
1.4	A		C	D	E	F	G			
1.5	A			D	E	F	G			
1.6	A			D	E	F	G			
1.7	A		C	D	E	F	G			
1.8	A	B		D	E	F	G			
1.9	A	B	C	D	E	F	G			
1.10	A		C	D	E	F	G			
1.11	H		C	D	E	F	G			
1.12	A		C	D	E	F	G			
1.13	H		C	D	E	F	G			
1.14	A		C	D	E	F	G			
1.15	A		C	D	E	F	G			
1.16	A		C	D	E		G			
1.17	A			D	E	F	G			
1.18	H			D	E	F	G			
1.19				D						
1.20				D						
1.21				D						

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

SIZE A	FSCM NO. 18355	DRAWING NO. ID44789
REV G	SHEET 1.2	

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SHEET REVISION RECORD

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3				D		F	G							
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5				D		F								
6				D	E		G							
7				D	E									
8				D	E									
9				D										
10				D										
11	A			D	E	F								
12	A			D	E									
13	A			D										
14				D										
15	A	C	D	E	F	G								
16		C	D			G								
17				D										
18				D	E		G							
19	A			D	E									
20				D			G							
21	A			D			G							
21.1	A			D	SHEET DELETED AT "E" REV.									
22	A			D			G							
23				D		F	G							
24				D		F	G							
24.1	A			D	SHEET DELETED AT "E" REV									

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

1.3

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SHEET REVISION RECORD

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25	A		D		G							
26	A		D		G							
27			D		G							
28			D		G							
29	A		D									
30	A		D									
31	A		D									
32			D									
33	A		D									
33.1	A		D	SHEET DELETED AT "E" REV								
34	A		D									
35			D		G							
36			D									
37	A		D									
38	A		D									
39	A		D	E								
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45.1	A		D	SHEET DELETED AT "E" REV								
46	A		D		G							
46.1	A		D	SHEET DELETED AT "E" REV								

MCDONNELL DOUGLAS AERONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

REV

FSCM NO.

18355

G

DRAWING NO.

1D44789

SHEET

1.4

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SHEET REVISION RECORD

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49				D			G				
50			C	D			G				
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53	A			D			G				
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55				D			G				
56				D			G				
57				D			G				
58				D			G				
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60				D			G				
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65				D							
66				D		F	G				
67				D							
68				D			G				
69				D							
70				D		F	G				
71				D		F					
72				D			G				

MCDONNELL DOUGLAS AERONAUTICS CO.
HUNTINGTON BEACH, CALIF.

~~MCDONNELL DOUGLAS~~

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

1.5



SHEET REVISION RECORD

SHEET NO.	REVISION														
73				D											
74				D											
75	A			D	F	G									
75.1	A			D	SHEET DELETED AT "E" REV										
76				D	F	G									
77				D		G									
78				D											
79	A			D											
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80	A			D	F	G									
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81	A			D	F										
81.1	A			D	SHEET DELETED AT "E" REV										
82				D		G									
83				D											
84				D											
85				D	F	G									
86				D	E										
87				D	E	F									
88				D	F	G									
89	A			D	E	G									
90	A			D	E	F	G								
91	A			D	E	G									
92	A			D	E	G									
92.1	A			D	SHEET DELETED AT "E" REV										
93	A			D	E	F									
93.1	A			D	SHEET DELETED AT "E" REV										

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

REV

FSCM NO.

18355

G

DRAWING NO.

1D44789

SHEET

1.6

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SHEET REVISION RECORD

SHEET NO.	REVISION													
94			D	E	F	G								
95			D	E		G								
96	A		D			G								
97			D											
97.1						G								
98			D		F									
99			D			G								
100			D			G								
101			D			G								
102			D			G								
103	A		D			G								
104			D			G								
105			D			G								
106			D			G								
107			D			G								
108			D			G								
109			D			G								
110	A		D			G								
111			D			G								
112			D			G								
112.1						G								
113	A		D			G								
113.1	A		D	SHEET DELETED AT "E" REV										
113.2	A		D	SHEET DELETED AT "E" REV										
113.3	A		D	SHEET DELETED AT "E" REV										
113.4	A		D	SHEET DELETED AT "E" REV										
114			D											

MCDONNELL DOUGLAS AERONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

1.7



SHEET REVISION RECORD

SHEET NO.	REVISION													
115				D			G							
116				D		F								
117				D			G							
118	A			D		F	G							
119				D										
120				D			G							
121	A			D			G							
121.1	A			D	SHEET DELETED AT "E" REV									
121.2	A			D	SHEET DELETED AT "E" REV									
121.3	A			D	SHEET DELETED AT "E" REV									
122				D			G							
123	A			D	E		G							
124	A			D										
125	A			D										
125.1	A			D	SHEET DELETED AT "E" REV									
126	A			D										
127	A			D		F								
127.1	A			D	SHEET DELETED AT "E" REV									
128	A			D		F								
129	A			D		F								
130				D		F								
131	A			D		F								
131.1	A		C	D	SHEET DELETED AT "E" REV									
132	A			D		F								

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS



SIZE

A

REV

FSCM NO.

18355

G

DRAWING NO.

1D44789

SHEET

1.8



SHEET REVISION RECORD

SHEET NO.	REVISION													
133	A			D	F	G								
134	A			D		G								
135				D		G								
136				D	F	G								
137	A			D		G								
137.1	A			D	SHEET DELETED AT "E" REV									
137.2	A			D	SHEET DELETED AT "E" REV									
137.3	A			D	SHEET DELETED AT "E" REV									
138	A			D		G								
138.1						G								
139	A			D		G								
139.1	A			D	SHEET DELETED AT "E" REV									
139.2	A			D	SHEET DELETED AT "E" REV									
140	A			D		G								
140.1	A			D	SHEET DELETED AT "E" REV									
140.2	A			D	SHEET DELETED AT "E" REV									
141	A			D		G								
141.1	A			D	SHEET DELETED AT "E" REV									
141.2	A			D	SHEET DELETED AT "E" REV									
142	A			D		G								
142.1	A			D	SHEET DELETED AT "E" REV									
143				D		G								
144				D		G								
145		B		D	E	F	G							
146				D										
147				D										
148				D										

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MCDONNELL DOUGLAS

SIZE

A

REV

FSCM NO.

18355

G

DRAWING NO.

1D44789

SHEET

1.9

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SHEET REVISION RECORD

SHEET NO.	REVISION													
149				D	E		G							
150				D	E		G							
151		B	C	D		F								
152				D	E	F								
153				D	E	F								
154				D	E	F								
155		B	C	D	E	F								
155.1			C	D	SHEET DELETED AT "E" REV									
156				D	E	F								
157				D	E	F								
158				D	E	F	G							
159			C	D	E	F	G							
160				D	E	F								
161			C	D	E	F								
161.1			C	D	SHEET DELETED AT "E" REV									
162		B	C	D	E	F								
162.1			C	D	SHEET DELETED AT "E" REV									
163				D	E	F								
164				D	E									
165				D	E									
166				D	E									
167	A			D	E									
168	A			D	E									
169	A			D	E									
169.1	A			D	SHEET DELETED AT "E" REV									
169.2	A			D	SHEET DELETED AT "E" REV									
170				D	E									
171	A			D	E									
171.1	A			D	SHEET DELETED AT "E" REV									
172				D	E									

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MCDONNELL DOUGLAS

SIZE

A

REV

FSCM NO.

18355

G

DRAWING NO.

ID44789

SHEET

1.10

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SHEET REVISION RECORD

SHEET NO.	REVISION										
173				D	E						
174				D	E	F	G				
175				D	E	F					
175.1					E	F	G				
175.2					E		G				
175.3					E	F	G				
176				D	E						
177				D			G				
178				D							
179	A			D	E	F					
179.1	A		C	D	SHEET DELETED AT "E" REV						
180	A			D	E	F					
180.1	A			D	SHEET DELETED AT "E" REV						
181	A		C	D	E		G				
182	A			D	E						
183	A		C	D	E						
184				D	E		G				
185			C	D	E		G				
186				D	E						
187			C	D	E		G				
188				D	E						
189			C	D	E						
190	A			D	E		G				
190.1	A			D	SHEET DELETED AT "E" REV						
191			C	D	E		G				
192				D	E	F	G				
193			C	D		F	G				
194				D		F	G				

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

1.11

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SHEET REVISION RECORD

SHEET NO.	REVISION											
195			C	D	E	F	G					
196				D		F						
197			C	D		F						
198				D		F						
199			C	D		F						
200				D		F						
201				D		F	G					
202	A		C	D								
202.1	A		C	D	SHEET DELETED AT "E" REV							
203	A		C	D			G					
204	A		C	D	E							
204.1	A		C	D	SHEET DELETED AT "E" REV							
205				D	E	F						
206				D	E	F						
207				D	E		G					
208				D								
209				D								
210	A			D								
211	A			D	E							
212			C	D			G					
213	A		C	D			G					
214	A		C	D		F						
215	A		C	D	E							
216	A		C	D								
217	A		C	D	E		G					
218	A		C	D								

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MCDONNELL DOUGLAS



SIZE

A

REV

FSCM NO.

18355

G

DRAWING NO.

1D44789

SHEET

1.12

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SHEET REVISION RECORD

SHEET NO.	REVISION											
219	A		C	D								
220	A		C	D								
220.1	A		C	D	SHEET DELETED AT "E" REV							
221	A			D								
222			C	D								
223	A		C	D	E							
223.1	A		C	D	SHEET DELETED AT "E" REV							
224	A		C	D	E	G						
225			C	D		G						
226	A			D	E	G						
226.1	A			D	SHEET DELETED AT "E" REV							
227				D	E	F						
228			C	D		G						
228.1			C	D	SHEET DELETED AT "E" REV							
229				D	E	F						
230	A			D	E	F						
231				D	E							
232			C	D	E	G						
232.1			C	D	SHEET DELETED AT "E" REV							
233				D	E							
233.1					E							
234				D		G						
235			C	D								
236			C	D	E							
236.1			C	D	SHEET DELETED AT "E" REV							
237				D	E	G						
238	A		C	D		F	G					
238.1	A		C	D	SHEET DELETED AT "E" REV							
239	A		C	D	E	F	G					
239.1	A			D	^{Deleted} E	F	G					

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

1.13

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SHEET REVISION RECORD

SHEET NO.	REVISION											
239.2	A		D	SHEET DELETED AT "E" REV								
240			D	E	F	G						
240.1					F	G						
241			D	E	F	G						
242	A		D	E	F	G						
242.1						G						
243			D	E	F							
244			D	E								
244.1				E	F							
244.2				E	F	G						
244.3				E	F	G						
244.4				E	F							
244.5				E	F							
244.6				E	F							
244.7					F							
245	A		D	E								
246	A		D	E								
246.1	A		D	SHEET DELETED AT "E" REV								
247	A	C	D	E	G							
247.1	A		D	SHEET DELETED AT "E" REV								
247.2	A		D	SHEET DELETED AT "E" REV								
248			D	E	G							
249	A	C	D	E	G							
250			D	E	G							
251	A		D	E	G							
252	A	C	D	E	G							
253			D	E	G							
253.1					G							
254		C	D	E	G							
255			D	E	G							
256	A	C	D	E	G							

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MCDONNELL DOUGLAS

SIZE	FSCM NO.	DRAWING NO.
A	18355	1D44789
REV	G	SHEET 1.14

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SHEET REVISION RECORD

SHEET NO.	REVISION										
257			D	E	G						
258			D	E	G						
259	A	C	D	E	G						
259.1	A		D SHEET DELETED AT "E" REV								
260	A		D	E	G						
261	A		D	E	G						
262			D	E	G						
263			D	E	F	G					
264			D	E	F	G					
265	A		D	E	G						
266			D	E	G						
267		C	D	E	G						
268			D	E	G						
269		C	D	E	G						
270			D	E	G						
271		C	D	E	G						
272	A		D	E	G						
273	A	C	D	E	G						
274			D	E	G						
275			D	E	G						
276	A		D	E	G						
277			D	E	G						
278	A		D	E	G						
279			D	E	G						
279.1					G						
280		C	D	E	G						
280.1		C	D	SHEET DELETED AT "E" REV							
281		C	D	E	G						
281.1		C	D	SHEET DELETED AT "E" REV							

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

1.15

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SHEET REVISION RECORD

SHEET NO.	REVISION															
282			C	D	E	G										
283	A			D	E	G										
284	A			D	E	G										
285	A			D	E	G										
286			C	D	E	G										
287			C	D	E	G										
288			C	D	E	G										
289			C	D	E	G										
289.1			C	D	SHEET DELETED AT "E" REV											
290				D	E	G										
291			C	D	E	G										
292			C	D	E	G										
293			C	D	E	G										
294			C	D	E	G										
295				D	E	G										
296			G	D	E	G										
296.1						G										
297			C	D	E	G										
297.1						G										
298			C	D	E	G										
299			C	D	E	G										
300			C	D	E	G										
300.1						G										
301			C	D	E	G										
302			C	D	E	G										
303			C	D	E	G										
304			C	D	E	G										
305			C	D	E	G										
306			C	D	E	G										
307			C	D	E	G										

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

1.16

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SHEET REVISION RECORD

SHEET NO.	REVISION																		
308			C	D	E	G													
309			C	D	E	Sheet Deleted at Rev 'G'													
310			C	D	E	Sheet Deleted at Rev 'G'													
311	A		C	D	E	Sheet Deleted at Rev 'G'													
312	A		C	D	E														
313	A		C	D	E	F	G												
314	A		C	D	E	F	G												
315	A		C	D	E	F	G												
316			C	D	E	F	G												
317				D	E	F	G												
318			C	D	E	F	G												
319	A			D	E	F	G												
320			C	D	E	F	G												
321				D	E	F	G												
322				D	E	F	G												
323				D	E	F	G												
324				D	E	F	G												
325				D	E	F													
325	A			D	E	F	G												
326.1							G												
327	A			D	E	F													
328	A			D	E	F													
329	A			D	E	F													
330	A			D	E	F													
331	A			D	E	F													
332	A			D	E	F													
332.1	A			D	SHEET DELETED AT "E" REV														

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

1.17

↓

SHEET REVISION RECORD

SHEET NO.	REVISION											
332.2	A			D	SHEET DELETED AT "E" REV							
333	A			D	E	F	G					
333.1	A			D	SHEET DELETED AT "E" REV							
334				D	↑	F	G					
335				D		F						
336				D		F						
337				D		F						
338				D		F	G					
339				D		F						
340				D		F						
341				D		F						
342				D		F						
343				D		F						
344				D		F						
345				D	↓	F						
346				D	^{Deleted} E	F	G					
347				D		F						
348				D		F						
349				D		F						
350	A			D	↓	F						
350.1	A			D	Deleted at "E" REV							
351				D	↑	F						
352				D		F	G					
353				D		F	G					
354				D	↓	F						
355				D	^{Delete} E	F						

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

ID44789

REV

G

SHEET

1.18

SHEET REVISION RECORD

SHEET NO.	REVISION																			
356				D	SHEET DELETED AT "E" REV															
357	A			D	↑	↑	↑	↑	↑	↑	↑	↑								
357.1	A			D	↑	↑	↑	↑	↑	↑	↑	↑								
358				D	↑	↑	↑	↑	↑	↑	↑	↑								
359				D	↑	↑	↑	↑	↑	↑	↑	↑								
360				D	↑	↑	↑	↑	↑	↑	↑	↑								
361				D	↑	↑	↑	↑	↑	↑	↑	↑								
362				D	↑	↑	↑	↑	↑	↑	↑	↑								
363				D	↑	↑	↑	↑	↑	↑	↑	↑								
364				D	↑	↑	↑	↑	↑	↑	↑	↑								
365				D	↑	↑	↑	↑	↑	↑	↑	↑								
366				D	↑	↑	↑	↑	↑	↑	↑	↑								
367				D	↑	↑	↑	↑	↑	↑	↑	↑								
368				D	↑	↑	↑	↑	↑	↑	↑	↑								
369				D	↑	↑	↑	↑	↑	↑	↑	↑								
370				D	↑	↑	↑	↑	↑	↑	↑	↑								
371				D	↑	↑	↑	↑	↑	↑	↑	↑								
372				D	↑	↑	↑	↑	↑	↑	↑	↑								
373				D	↑	↑	↑	↑	↑	↑	↑	↑								
374				D	↑	↑	↑	↑	↑	↑	↑	↑								
375				D	↑	↑	↑	↑	↑	↑	↑	↑								
376				D	↑	↑	↑	↑	↑	↑	↑	↑								
377				D	↑	↑	↑	↑	↑	↑	↑	↑								
378				D	↑	↑	↑	↑	↑	↑	↑	↑								
379				D	↑	↑	↑	↑	↑	↑	↑	↑								
380				D	SHEET DELETED AT "E" REV															

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MCDONNELL DOUGLAS

SIZE **A** FSCM NO. **18355**

DRAWING NO. **1D44789**

REV **D**

SHEET **1.19**



SHEET REVISION RECORD

SHEET NO.	REVISION								
381	D	SHEET DELETED AT "E" REV							
382	D	↑	↑	↑	↑	↑	↑	↑	
383	D								
384	D								
385	D								
386	D								
387	D								
388	D								
389	D								
390	D								
391	D								
392	D								
393	D								
394	D								
395	D								
396	D								
397	D								
398	D								
399	D								
400	D								
401	D								
402	D								
403	D								
405	D								
406	D	↓	↓	↓	↓	↓	↓	↓	
407	D	SHEET DELETED AT "E" REV							

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

D

SHEET

1.20



SHEET REVISION RECORD

SHEET NO.	REVISION																			
408				D	SHEET DELETED AT "E" REV															
409				D	↑	↑	↑	↑	↑	↑	↑	↑	↑							
410				D																
411				D																
412				D																
413				D																
414				D																
415				D	↓	↓	↓	↓	↓	↓	↓	↓	↓							
416				D	SHEET DELETED AT "E" REV															

MCDONNELL DOUGLAS AERONAUTICS CO.
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MCDONNELL DOUGLAS

SIZE	FSCM NO.	DRAWING NO.
A	18355	1D44789
REV	D	SHEET 1.21

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ILS LOGIC TO NETWORK CONVERSION

<u>NETWORK</u>	<u>SPARE</u>	<u>TITLE</u>	<u>LOGIC</u>
1-2		Power up and memory reset	
3-6		SOV 2016 A&B	I5-50
7-10		SOV 2019 A&B	I5-50
11-14		AOV 2007	I5-51
15-20		AOV 2911	I5-52
21-24		AOV 2902	I5-53
25-28		AOV 2901	I5-53
29-30		AOV 2004	I5-54
31-32		SDS Reset	---
33-35		MOV 1031	I5-17
36-37		AOV 2914	I5-56
38-39		AOV 2915	I5-56
40-41		LV 1010	I5-15
42-43		LV 1011	I5-15
44-45		LV 1012	I5-15
46-47		LV 1013	I5-15
48-49		LV 1015	I5-15
50-51		LV 1016	I5-16
52-53		SOV 1006	I5-6
54-55		AOV 1009	I5-10
56-57		PV 1000	I5-8
58-60		FV 1007	I5-7
61		SDS Trip (TS1002)	
62-64		MOV 1030	I5-17
65-67		MOV 1132	I5-17
68-82		P307 (TSS Flash TK Drain)	I5-20
73-74		AOV 3817	I5-36
75-76		AOV 3708	I5-32
77-78		AOV 3808	I5-32
79-80		AOV 3807	I5-33
81-82		AOV 3707	I5-33
83-84		AOV 3318	I5-33
85-86		AOV 3218	I5-33
87-88		AOV 3906	I5-33
89-90		AOV 3905	I5-33
91-92		AOV 3309	I5-33
93-94		AOV 3209	I5-33
95-96		AOV 3320	I5-33
97-98		AOV 2903	I5-33
99-100		AOV 3220	I5-33
101-102		AOV 3005	I5-34
103-104		AOV 3907	I5-35
105-106		AOV 3004	I5-35
107-108		AOV 3003	I5-35
109-110		AOV 3002	I5-35
111-112		AOV 3001	I5-35
113-114		AOV 3717	I5-36
115-119		AOV 3206	I5-38
120-124		AOV 3306	I5-38
125-130		P305	I5-30

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV F

SHEET

2

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ILS LOGIC TO NETWORK CONVERSION

<u>NETWORK</u>	<u>SPARE</u>	<u>TITLE</u>	<u>LOGIC</u>
131-141		P301	I5-31
142-152		P302	I5-31
153-163		P303	I5-31
164		P303 & 304 Flow	I5-31
165-175		P304	I5-31
176-196		P917 (RFP)	I5-5
197-200		RCVR Drain Valves (HS2913)	I5-57
201-203		RS RLU Bit Status	---
204-205		RS RLU Reset/Trip Status (OCS)	---
206-207		TSS Chg Reset	---
208-209		TSS Ext Reset	---
210-212		TSS RLU Bit Status	---
	213	SPARE	---
214-215		LV 3116	I5-15
	216-200	SPARE	---
221-229		AOV 3117	I5-37
	230	SPARE	---
231-239		AOV 3118	I5-37
	240	SPARE	---
241-244		AOV 1008	I5-11
245-250		P703 & P704	I5-19
251-255		P710-LIT160	I5-18
256-257		ILS 101 Multiplexer	---
258-259		ILS 201 Multiplexer	---
260-261		ILS 301 Multiplexer	---
	262 - 286	SPARE	---
287-290		MOV 229	
291-294		MOV 140	
295-298		MOV 110	
299-302		MOV 903	
303-306		MOV 904	
307-310		MOV 905	
311-313		MOV 906	
314-315		ILS 401 Multiplexer	
316-318		MOV 935	
319-322		MOV 960	
323-326		MOV 982	
327-330		MOV 990	
331-334		MOV 991	
335-337		HS 313 Cooling wtr. pump P901 - I5-106	
338-340		HS 155 Vacuum pump -	
341-342		HS 1 LV-1-TSS feed wtr from TSS/aux BFP	
343-344		HS 31 LV-31 aux blr feet wtr	
345-351		HS 71 TSS/aux blr feed str pump (P-904)	
352-353		MOV 609	
354-355		MOV 615	
356-357		MOV 616	

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A

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18355

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1044789

REV

G

SHEET

3

↓

ILS LOGIC TO NETWORK CONVERSION

<u>NETWORK</u>	<u>SPARE</u>	<u>TITLE</u>	<u>LOGIC</u>
358-359		MOV 617	
360-361		MOV 623	
362-363		MOV 941	
364-366		MOV 637	
367-369		MOV 650	
370-372		MOV 652	
373-375		MOV 675	
376-378		MOV 676	
379-381		MOV 999	
382-398		HS 232 Cooling Tower Fan (F-903)	
390-396		HS 208 Cooling Tower Fan (F-901)	
397-403		HS 213 Cooling Tower Fan (F-902)	
404-407		MOV 243 Circ. pump (P-906) discharge	
409		Siren	
410		Strobe Lite	
412-415		Front Gate Control	
416		EPGS Trip Status (OCS)	
417		Empty	
418-426		HS 50 T.S.S. Feed Water Pump (P-903)	
427-436		HS 260 Circ. Water Pump (P-905)	
437-440		MOV 222 Circ. Pump (P-905) discharge	
441-450		HS 242 Circ. Water Pump (P-906) gland steam	
451-453		HS 958 Exhauster (P-941) 1st point htr.	
454-455		LIT 8 Level switch 1st point htr.	
456-457		LIT 24 Level switch 2nd point htr.	
458-459		LIT 83 Level switch deaerator - 3rd point htr.	
460-461		LIT 104 Level switch	
462-464		MOV 624	
465-467		MOV 626	
468-470		MOV 628	
471-473		MOV 630	
474-476		HS 450 Ammonia pump (P-934)	
477-479		HS 207 Cooling tower acid pump (P-912)	
480-482		HS 449 Hydrazine pump (P-933)	
483-485		HS 858 Hydraulic oil pump (P-938A)	
486-488		HS 856 Hydraulic oil pump (P-938B)	
489-490		HS 209 Keep wet timer	

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ILS LOGIC TO NETWORK CONVERSION

<u>NETWORK</u>	<u>SPARE</u>	<u>TITLE</u>	<u>LOGIC</u>
491-492		Empty	
493-494		Empty	
495-497		HS 5003	
498-500		HS 5004	
501-509		Empty	
510-512		HS 5006	
513-515		HS 5007	
516-524		Empty	
525-527		HS 5008	
528-530		HS 5009	
531-533		HS 5010	
534-536		HS 5020	
537-539		HS 5021	
540-542		HS 5022	
543-545		HS 5025	
546-548		HS 5015	
549-551		HS 5017	
552-554		HS 5001	
555-557		HS 525 Air compressor (CP-902)	
558-561		HS 524 Air compressor (CP-901)	
562-567		Empty	
568-575		HS 131 Condensate pump (P-907)	
576-577		HS 620 Trip all non ret vvs	
578-580		HS 625 1st point extraction non return vv	
581-583		HS 627 2nd point extraction non return vv	
584-586		HS 629A 3rd point extraction non return vv "A"	
587-589		HS 629B 3rd point extraction non return vv "B"	
590-592		HS 631 4th point extraction non return vv	
592-593		ZSH-L 901 Admission steam stop vv - indicating lights	
594-595		MOV 660	
596-660		Empty	

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SHEET 5

CONTROLLER: 584 #1 EXEC #: 00066

NETWORKS: 00001-00611
 COILS: NONE
 DISCRETE INPUTS: NONE
 INPUT REGS: NONE
 HOLDING REGS: NONE
 NUMBER OF MESSAGES: NONE

CONFIGURATION OF LEVEL 4 584 CONTROLLER

TOTAL LOGIC WORDS : 20859 TOTAL MESSAGE WORDS : 00000
 TOTAL MESSAGES : 0000 HIGHEST MESSAGE USED : 0000
 COILS: 6080 DISCRETE INPUTS: 2112
 INPUT REGS: 0064 HOLDING REGS: 8192

SEG	USED	NETWORKS	SEG	USED	NETWORKS
0001	0829	0001 - 0055	0002	0591	0056 - 0110
0003	0957	0111 - 0162	0004	1107	0163 - 0212
0005	0855	0213 - 0259	0006	0373	0260 - 0313
0007	0838	0314 - 0372	0008	0802	0373 - 0426
0009	0927	0427 - 0482	0010	0567	0483 - 0536
0011	1278	0537 - 0611			

RUNNING 584

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SHEET

6

CHANNELS: 01

INPUT			OUTPUT	
SLOT	REF #	TYPE	REF #	TYPE
1	11921	DISCRETE	01921	DISCRETE
2	11937	DISCRETE	01937	DISCRETE
3	11953	DISCRETE	01953	DISCRETE
4	---	INHIBIT	01969	DISCRETE
5	---	INHIBIT	01985	DISCRETE
6	---	INHIBIT	02001	DISCRETE
7	---	INHIBIT	02017	DISCRETE
8	---	INHIBIT	02033	DISCRETE

CHANNELS: 02

INPUT			OUTPUT	
SLOT	REF #	TYPE	REF #	TYPE
1	10001	DISCRETE	00001	DISCRETE
2	10017	DISCRETE	00017	DISCRETE
3	10033	DISCRETE	00033	DISCRETE
4	10049	DISCRETE	00049	DISCRETE
5	10065	DISCRETE	00065	DISCRETE
6	10081	DISCRETE	00081	DISCRETE
7	10097	DISCRETE	00097	DISCRETE
8	10113	DISCRETE	00113	DISCRETE

CHANNELS: 03

INPUT			OUTPUT	
SLOT	REF #	TYPE	REF #	TYPE
1	---	INHIBIT	02305	DISCRETE
2	---	INHIBIT	02321	DISCRETE
3	---	INHIBIT	02337	DISCRETE
4	---	INHIBIT	02353	DISCRETE
5	---	INHIBIT	---	INHIBIT
6	---	INHIBIT	---	INHIBIT
7	---	INHIBIT	---	INHIBIT
8	---	INHIBIT	---	INHIBIT

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SHEET

7

CHANNELS: 04

INPUT		OUTPUT		
SLOT	REF #	TYPE	REF #	TYPE
1	12049	DISCRETE	02177	DISCRETE
2	12065	DISCRETE	02193	DISCRETE
3	12081	DISCRETE	02209	DISCRETE
4	---	INHIBIT	02225	DISCRETE
5	---	INHIBIT	02241	DISCRETE
6	---	INHIBIT	02257	DISCRETE
7	---	INHIBIT	02273	DISCRETE
8	---	INHIBIT	02289	DISCRETE

CHANNELS: 05

INPUT		OUTPUT		
SLOT	REF #	TYPE	REF #	TYPE
1	11985	DISCRETE	02049	DISCRETE
2	12001	DISCRETE	02065	DISCRETE
3	12017	DISCRETE	02081	DISCRETE
4	---	INHIBIT	02097	DISCRETE
5	---	INHIBIT	02113	DISCRETE
6	---	INHIBIT	02129	DISCRETE
7	---	INHIBIT	02145	DISCRETE
8	---	INHIBIT	02161	DISCRETE

CHANNELS: 06

INPUT		OUTPUT		
SLOT	REF #	TYPE	REF #	TYPE
1	---	INHIBIT	---	INHIBIT
2	---	INHIBIT	---	INHIBIT
3	---	INHIBIT	---	INHIBIT
4	---	INHIBIT	---	INHIBIT
5	---	INHIBIT	---	INHIBIT
6	---	INHIBIT	---	INHIBIT
7	---	INHIBIT	---	INHIBIT
8	---	INHIBIT	---	INHIBIT

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SHEET

8

CHANNELS: 07

INPUT			OUTPUT	
SLOT	REF #	TYPE	REF #	TYPE
1	11057	DISCRETE	40100	BCD REG
2	11073	DISCRETE	01025	DISCRETE
3	---	INHIBIT	01041	DISCRETE
4	---	INHIBIT	---	INHIBIT
5	30011	BIN REG	---	INHIBIT
6	---	INHIBIT	---	INHIBIT
7	---	INHIBIT	---	INHIBIT
8	---	INHIBIT	---	INHIBIT

CHANNELS: 08

INPUT			OUTPUT	
SLOT	REF #	TYPE	REF #	TYPE
1	---	INHIBIT	---	INHIBIT
2	---	INHIBIT	---	INHIBIT
3	---	INHIBIT	---	INHIBIT
4	---	INHIBIT	---	INHIBIT
5	---	INHIBIT	---	INHIBIT
6	---	INHIBIT	---	INHIBIT
7	---	INHIBIT	---	INHIBIT
8	---	INHIBIT	---	INHIBIT

CHANNELS: 09

INPUT			OUTPUT	
SLOT	REF #	TYPE	REF #	TYPE
1	11185	DISCRETE	40200	BCD REG
2	11201	DISCRETE	01153	DISCRETE
3	11217	DISCRETE	01185	DISCRETE
4	11233	DISCRETE	01217	DISCRETE
5	30021	BIN REG	01233	DISCRETE
6	---	INHIBIT	01249	DISCRETE
7	---	INHIBIT	---	INHIBIT
8	---	INHIBIT	---	INHIBIT

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SHEET

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CHANNELS: 10

INPUT		OUTPUT		
SLOT	REF #	TYPE	REF #	TYPE
1	---	INHIBIT	---	INHIBIT
2	---	INHIBIT	---	INHIBIT
3	---	INHIBIT	---	INHIBIT
4	---	INHIBIT	---	INHIBIT
5	---	INHIBIT	---	INHIBIT
6	---	INHIBIT	---	INHIBIT
7	---	INHIBIT	---	INHIBIT
8	---	INHIBIT	---	INHIBIT

CHANNELS: 11

INPUT		OUTPUT		
SLOT	REF #	TYPE	REF #	TYPE
1	11297	DISCRETE	40300	BCD REG
2	11313	DISCRETE	01329	DISCRETE
3	11329	DISCRETE	01345	DISCRETE
4	---	INHIBIT	01361	DISCRETE
5	30031	BIN REG	---	INHIBIT
6	---	INHIBIT	---	INHIBIT
7	---	INHIBIT	---	INHIBIT
8	---	INHIBIT	---	INHIBIT

CHANNELS: 12

INPUT		OUTPUT		
SLOT	REF #	TYPE	REF #	TYPE
1	---	INHIBIT	---	INHIBIT
2	---	INHIBIT	---	INHIBIT
3	---	INHIBIT	---	INHIBIT
4	---	INHIBIT	---	INHIBIT
5	---	INHIBIT	---	INHIBIT
6	---	INHIBIT	---	INHIBIT
7	---	INHIBIT	---	INHIBIT
8	---	INHIBIT	---	INHIBIT

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CHANNELS: 13

SLOT	INPUT		OUTPUT	
	REF #	TYPE	REF #	TYPE
1	11537	DISCRETE	01537	DISCRETE
2	11553	DISCRETE	01553	DISCRETE
3	11569	DISCRETE	01569	DISCRETE
4	11585	DISCRETE	01585	DISCRETE
5	---	INHIBIT	01601	DISCRETE
6	---	INHIBIT	01617	DISCRETE
7	---	INHIBIT	01633	DISCRETE
8	---	INHIBIT	---	INHIBIT

CHANNELS: 14

SLOT	INPUT		OUTPUT	
	REF #	TYPE	REF #	TYPE
1	11441	DISCRETE	40400	BCD REG
2	11457	DISCRETE	01409	DISCRETE
3	11473	DISCRETE	01441	DISCRETE
4	11489	DISCRETE	01457	DISCRETE
5	30041	BIN REG	01473	DISCRETE
6	---	INHIBIT	01489	DISCRETE
7	---	INHIBIT	01505	DISCRETE
8	---	INHIBIT	01521	DISCRETE

CHANNELS: 15

SLOT	INPUT		OUTPUT	
	REF #	TYPE	REF #	TYPE
1	---	INHIBIT	01665	DISCRETE
2	---	INHIBIT	01681	DISCRETE
3	11697	DISCRETE	---	INHIBIT
4	11713	DISCRETE	---	INHIBIT
5	11729	DISCRETE	---	INHIBIT
6	---	INHIBIT	---	INHIBIT
7	---	INHIBIT	---	INHIBIT
8	---	INHIBIT	---	INHIBIT

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CHANNELS: 16

INPUT			OUTPUT	
SLOT	REF #	TYPE	REF #	TYPE
1	----	INHIBIT	----	INHIBIT
2	----	INHIBIT	----	INHIBIT
3	----	INHIBIT	----	INHIBIT
4	----	INHIBIT	----	INHIBIT
5	----	INHIBIT	----	INHIBIT
6	----	INHIBIT	----	INHIBIT
7	----	INHIBIT	----	INHIBIT
8	----	INHIBIT	----	INHIBIT

CHANNELS: 17

INPUT			OUTPUT	
SLOT	REF #	TYPE	REF #	TYPE
1	11793	DISCRETE	01793	DISCRETE
2	11809	DISCRETE	01809	DISCRETE
3	11825	DISCRETE	01825	DISCRETE
4	----	INHIBIT	01841	DISCRETE
5	----	INHIBIT	01857	DISCRETE
6	----	INHIBIT	01873	DISCRETE
7	----	INHIBIT	----	INHIBIT
8	----	INHIBIT	----	INHIBIT

CHANNELS: 18

INPUT			OUTPUT	
SLOT	REF #	TYPE	REF #	TYPE
1	----	INHIBIT	----	INHIBIT
2	----	INHIBIT	----	INHIBIT
3	----	INHIBIT	----	INHIBIT
4	----	INHIBIT	----	INHIBIT
5	----	INHIBIT	----	INHIBIT
6	----	INHIBIT	----	INHIBIT
7	----	INHIBIT	----	INHIBIT
8	----	INHIBIT	----	INHIBIT

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CHANNELS: 19

INPUT			OUTPUT	
SLOT	REF #	TYPE	REF #	TYPE
1	---	INHIBIT	---	INHIBIT
2	---	INHIBIT	---	INHIBIT
3	---	INHIBIT	---	INHIBIT
4	---	INHIBIT	---	INHIBIT
5	---	INHIBIT	---	INHIBIT
6	---	INHIBIT	---	INHIBIT
7	---	INHIBIT	---	INHIBIT
8	---	INHIBIT	---	INHIBIT

CHANNELS: 20

INPUT			OUTPUT	
SLOT	REF #	TYPE	REF #	TYPE
1	---	INHIBIT	---	INHIBIT
2	---	INHIBIT	---	INHIBIT
3	---	INHIBIT	---	INHIBIT
4	---	INHIBIT	---	INHIBIT
5	---	INHIBIT	---	INHIBIT
6	---	INHIBIT	---	INHIBIT
7	---	INHIBIT	---	INHIBIT
8	---	INHIBIT	---	INHIBIT

CHANNELS: 21

INPUT			OUTPUT	
SLOT	REF #	TYPE	REF #	TYPE
1	---	INHIBIT	---	INHIBIT
2	---	INHIBIT	---	INHIBIT
3	---	INHIBIT	---	INHIBIT
4	---	INHIBIT	---	INHIBIT
5	---	INHIBIT	---	INHIBIT
6	---	INHIBIT	---	INHIBIT
7	---	INHIBIT	---	INHIBIT
8	---	INHIBIT	---	INHIBIT

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CHANNELS: 22

INPUT			OUTPUT	
SLOT	REF #	TYPE	REF #	TYPE
1	---	INHIBIT	---	INHIBIT
2	---	INHIBIT	---	INHIBIT
3	---	INHIBIT	---	INHIBIT
4	---	INHIBIT	---	INHIBIT
5	---	INHIBIT	---	INHIBIT
6	---	INHIBIT	---	INHIBIT
7	---	INHIBIT	---	INHIBIT
8	---	INHIBIT	---	INHIBIT

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NETWORK: 00001 SEGMENT: 001 INITIALIZATION - STATUS/TRIPS

```

+.....-( )- POWER UP MEMORY
I                                02501
I
+---]P[.....-( )- POWER UP INITIALIZATION
I 02501                          02500
I
+---] [.....-( )- OVERALL TRIP TO PLANT
I 02003                          01620 TRIP LOGIC FOR ILS 584
I                                #1 FAILURE
+---] [.....-( )- RS TRIP TO PLANT TRIP
I 10059                          01621 LOGIC FOR ILS 584 #2
I                                FAILURE
+.....-( )-
I                                02003 ILS 584 #1 STATUS -
I                                UI1997
  
```

NETWORK: 00002 SEGMENT: 001 ILS 584 #1 STATUS

```

+---] [---] [.....-( )- ILS 584 #1 ALARM -
I 02500! 02502                    00060 UI1999
I !
+---] [---
I 00060!
I !
+---] [---
I 05001
I
+---] [---] [.....-( )- ALARM RESET
I 10060! 02503                    02502
I !
I +---] [---.....-( )- PULSE TIMER
I ! 00100                        02503
I ! [ ]
I +---] [---[T.01-
I 48106
I
  
```

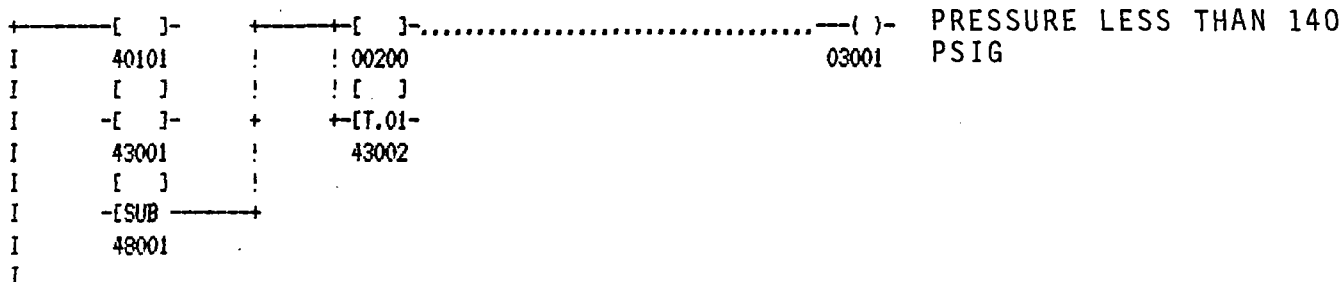
NOTE: 5001 is ILS 584 #1 Input/Output modules status (See networks 602, 603 and 604)

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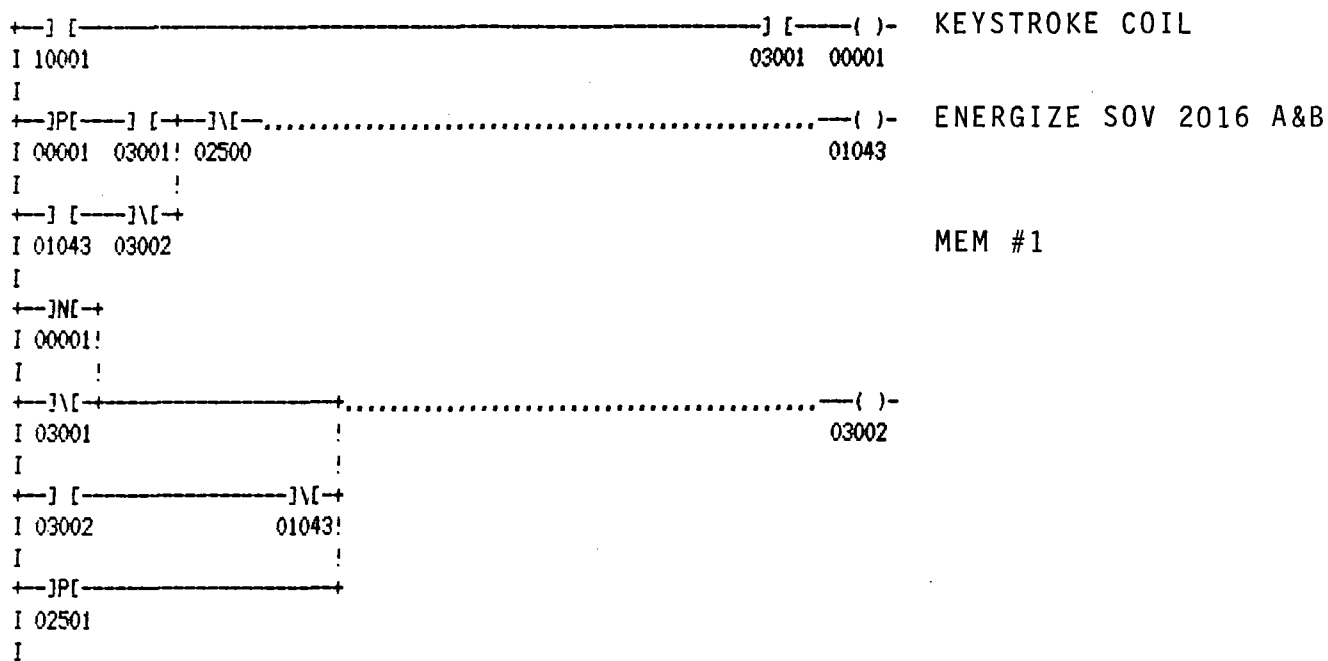
MCDONNELL DOUGLAS

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NETWORK: 00003 SEGMENT: 001 SOV 2016A & B PRESSURE



NETWORK: 00004 SEGMENT: 001 SOV 2016A & B KEYSTROKE AND OUTPUT



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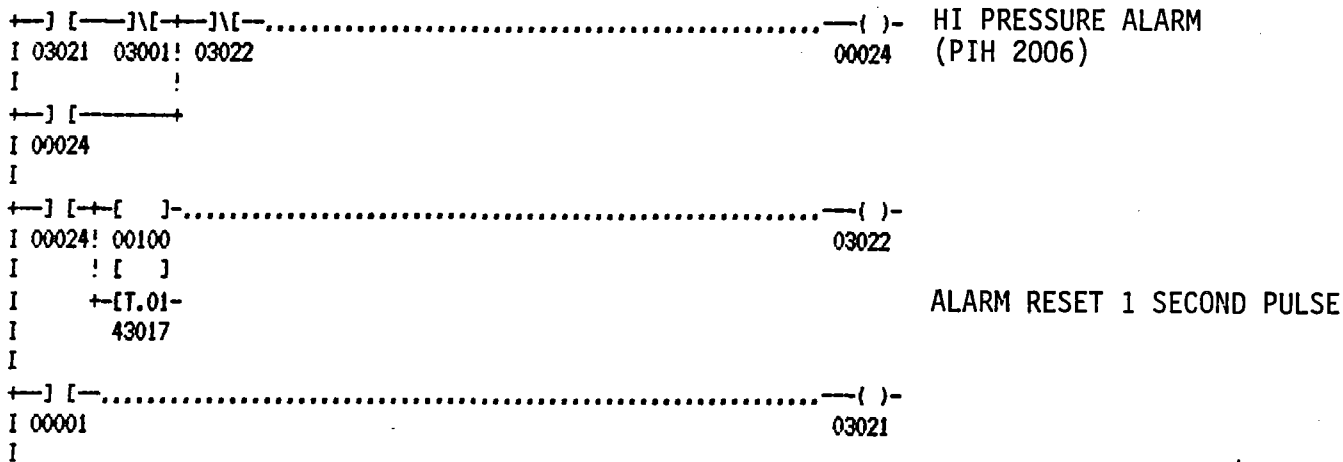
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NETWORK: 00005 SEGMENT: 001 SOV 2016 A&B ALARM



NETWORK: 00006 SEGMENT: 001 SOV 2016 A&B

 * EMPTY NETWORK *

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NETWORK: 00007 SEGMENT: 001 SOV 2019A & B

```

PT2906A
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
I 40104! ! 00400 -----( )- PRESSURE LESS THAN 435
I [ ]! ! [ ] 03026 PSIG
I -[ ]+ +-[T.0]-
I 43015 43150
I [ ]
I -[SUB -
I 48002
I PT2906B
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
I 40105! ! 00400 -----( )- PRESSURE LESS THAN 435
I [ ]! ! [ ] 03027 PSIG
I -[ ]+ +-[T.0]-
I 43016 43151
I [ ]
I -[SUB -
I 48003
I
  
```

NETWORK: 00008 SEGMENT: 001 SOV 2019A & B KEYSTROKE & OUTPUT

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
I 10002 03003 -----( )- KEYSTROKE - HS 2019
I 00002 03003! 02500 -----( )- ENERGIZE TO OPEN SOV
I 01042 03004 -----( )- MEM #1
I 03003 -----( )- MEM #1
I 03004 01042!
I 02501
I
  
```

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NETWORK: 00009 SEGMENT: 001 SOV 2019A & B (SEE ALSO NET 25 ILS #2)

```

+ ] [ --- ] \ [ + ] \ [ - ..... --- ( ) - HIGH PRESSURE ALARM
I 03023 03003! 03024 00025 (PIH 2906)
I
I
+ ] [ -----+
I 00025
I
+ ] [ + [ ] ..... --- ( ) - ALARM RESET
I 00025! 00100 03024
I ! [ ]
I + [ T.01-
I 43018
I
+ ] [ - ..... --- ( ) -
I 00002 03023
I
+ ] \ [ --- ] \ [ - ..... --- ( ) - PRESSURE LESS THAN 400 PSIG
I 03026 03027 03003
I
  
```

NETWORK: 00010 SEGMENT: 001 SOV 2019A & B

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
	REV	E	SHEET 19

NETWORK: 00011 SEGMENT: 001 AOV 2007 PRESSURE AND ALARM

```
-----[ ]-  
I 40101 PT 2006  
I [ ]  
I -[ ]- +[ ]-.....-( )- PRESSURE LESS THAN 450  
I 43005 ! 00200 03005 PSIG  
I [ ] ! [ ]  
I -[SUB]-----+[T.01]-  
I 48004 43152  
I  
+ ] [-.....-( )- ALARM PREHEATER VENT  
I 01041 01972 VALVE OPEN ZI2007 (SEE  
I NETWORK 12 ALSO)
```

NETWORK: 00012 SEGMENT: 001 AOV 2007 KEYSTROKE AND OUTPUT

```
+ ] [-] \ [ -] \ [ -.....-( )- KEYSTORKE HS 2007  
I 10003 02500 03020 00003  
I  
+ ] P [ -] [ + ] \ [ -.....-( )- ENERGIZE SOV 2007  
I 00003 03005 ! 02500 01041 (OPEN AOV 2007)  
I !  
+ ] [-] \ [ -+ MEM  
I 01041 03006  
I  
+ ] N [ -----] \ [ -.....-( )-  
I 00003 ! 03006  
I !  
+ ] [ -----] \ [ -+  
I 03006 01041!  
I !  
+ ] P [ -----+  
I 02501  
I
```

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

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1D44789

REV

G

SHEET

20

NETWORK: 00013 SEGMENT: 001 AOV 2007

```

+-] [+ [ ] -] \ [ - ..... - ( ) - KEYSTROKE RESET
I 00003! 00100 01041 03020
I ! [ ]
I +- [T.01-
I 43019
I
  
```

NETWORK: 00014 SEGMENT: 001 AOV 2007

 * EMPTY NETWORK *

NETWORK: 00015 SEGMENT: 001 AOV 2911 PRESSURE

```

PT2906A
+-] [+ [ ] -] \ [ - ..... - ( ) - PRESSURE > 540 PSIG
I 40104 ! 00200 03008
I [ ] ! [ ]
I - [ ] - +- [T.01-
I 43007 43153
I [ ]
I - [SUB -
I 48005
I
I
I
I
  
```

```

PT2906B
+-] [+ [ ] -] \ [ - ..... - ( ) - PRESSURE > 540 PSIG
I 40105 ! 00200 03009
I [ ] ! [ ]
I - [ ] - +- [T.01-
I 43008 43154
I [ ]
I - [SUB -
I 48006
I
I
  
```

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SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

21

NETWORK: 00016 SEGMENT: 001 AOV 2911 PRESSURE AND TEMP

```

PT2902
+---] [---] .....-( )- PRESSURE > 650 PSIG
I 40102 ! 00200 03012
I [ ] ! [ ]
I -[ ]- +-[T.01]-
I 43006 43163
I [ ]
I -[SUB] +[ ] .....-( )- PRESSURE < 650 PSIG
I 48007 ! 00200 03007
I ! [ ]
I +-[T.01]-
I 43155
I
TE2903
+---] [---] .....-( )- TEMP > 950°F
I 40103 ! 00400 03011
I [ ] ! [ ]
I -[ ]- +-[T.01]-
I 43009 43156
I [ ]
I -[SUB] -
I 48008
I
  
```

NETWORK: 00017 SEGMENT: 001 AOV 2911

```

+---] [+ .....-( )- PT 2906 A OR B > 540
I 03008! 03010 PSIG
I !
+---] [+
I 03009
I
+---] [+---[ ]---] \[---] .....-( )- KEYSTROKE RESET
I 00004! 00100 01035 03025 (SEE ILS 584 #2 NET 4)
I ! [ ]
I +-[T.01]-
I 43020
I
  
```

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MCDONNELL DOUGLAS

SIZE	FSCM NO.	DRAWING NO.
A	18355	1D44789
REV	G	SHEET 22

NETWORK: 00018 SEGMENT: 001 AOV 2911

```

+ ] [---]N[---]N[---]N[---]N[---] [---]N[---].....--( )- KEYSTROKE
I 10004 02500 03025 03010 03011 03007 03012 00004
I
+ ]N[---] [---]N[---].....--( )- ENERGIZE SOV 2911 (OPEN
I 00004 03007! 02500 01035 AOV 2911)
I
+ ] [---]N[---].....--( )- 1/2 MEM #1
I 01035 03013
I
+ ] [---].....--( )- SDPC CLOSE LITE (GREEN)
I 11061 01970 ZI 2911
I
+ ] [---].....--( )- SDPC OPEN LITE (RED)
I 11062 01969
I
+ ] [---] [---].....--( )- PIH 2911 ALARM
I 03010 11062 00033
I
+ ] [---] [---].....--( )- TIH 2911 ALARM
I 03011 11062 00035
I
  
```

NETWORK: 00019 SEGMENT: 001 AOV 2911

```

+ ]N[---].....--( )- CLOSE COMMAND
I 00004! 03013
I !
+ ] [---].....--( )-
I 03010! PIH 2911 !
I !
+ ] [---] [---] [---].....--( )- TIH 2911 RS RLU TRIPPED
I 03011 ! 03012! !
I ! ! !
+ ]N[---].....--( )-
I 02014 !
I !
+ ] [---]N[---].....--( )-
I 03013 01035!
I !
+ ]N[---].....--( )-
I 02501
I
+ ] [---] [---].....--( )- PIH 2911A ALARM
I 03012 11062 00034
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
MCDONNELL DOUGLAS	REV	G	SHEET
			23

NETWORK: 00020 SEGMENT: 001

 * EMPTY NETWORK *

NETWORK: 00021 SEGMENT: 001 AOV 2902 PRESSURE

```

+-----[ ]-----
I 40102 PT2902
I [ ]
I -[ ]- +[ ]-.....-( )- PRESSURE < 1500 PSIG
I 43011 ! 00200 03014
I [ ] ! [ ]
I -[SUB]-----+[T.01]-
I 48009 43159
I
I
I
I

```

```

PT2902
+-----[ ]-----+[ ]-.....-( )- PRESSURE > 1625 PSIG
I 40102 ! 00200 03015
I [ ] ! [ ]
I -[ ]- +[T.01]-
I 43012 43160
I [ ]
I -[SUB] -
I 48010
I
I

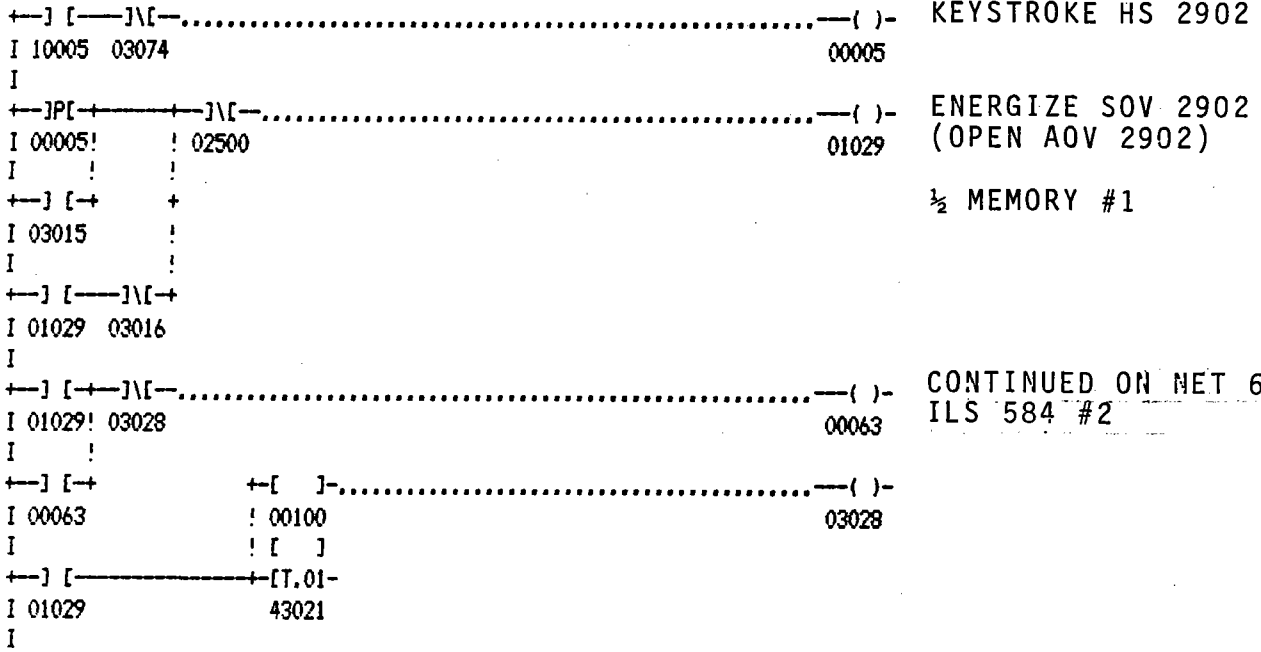
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

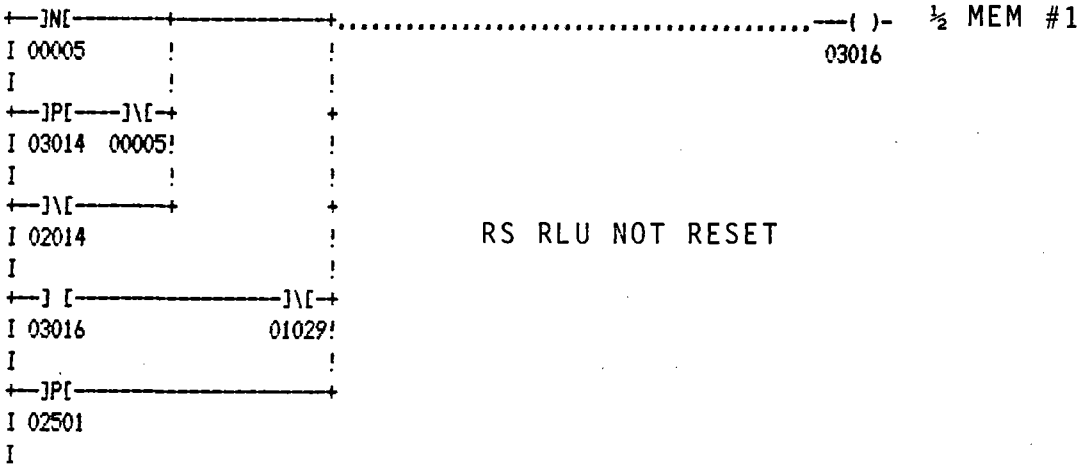
MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV G	SHEET 24	

NETWORK: 00022 SEGMENT: 001 AOV 2902



NETWORK: 00023 SEGMENT: 001 AOV 2902



MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
REV	G	SHEET	25

NETWORK: 00024 SEGMENT: 001 AOV 2902

←]P[←] []-.....-()- CLOSE COMMAND
 I 03014! 03075 03074

I !
 ←] [←+
 I 03074
 I

←] [-----+ []-.....-()- PULSE TIMER
 I 03074 ! 00100 03075

I ! []
 I +-[T.01-
 I 43022
 I

NETWORK: 00025 SEGMENT: 001

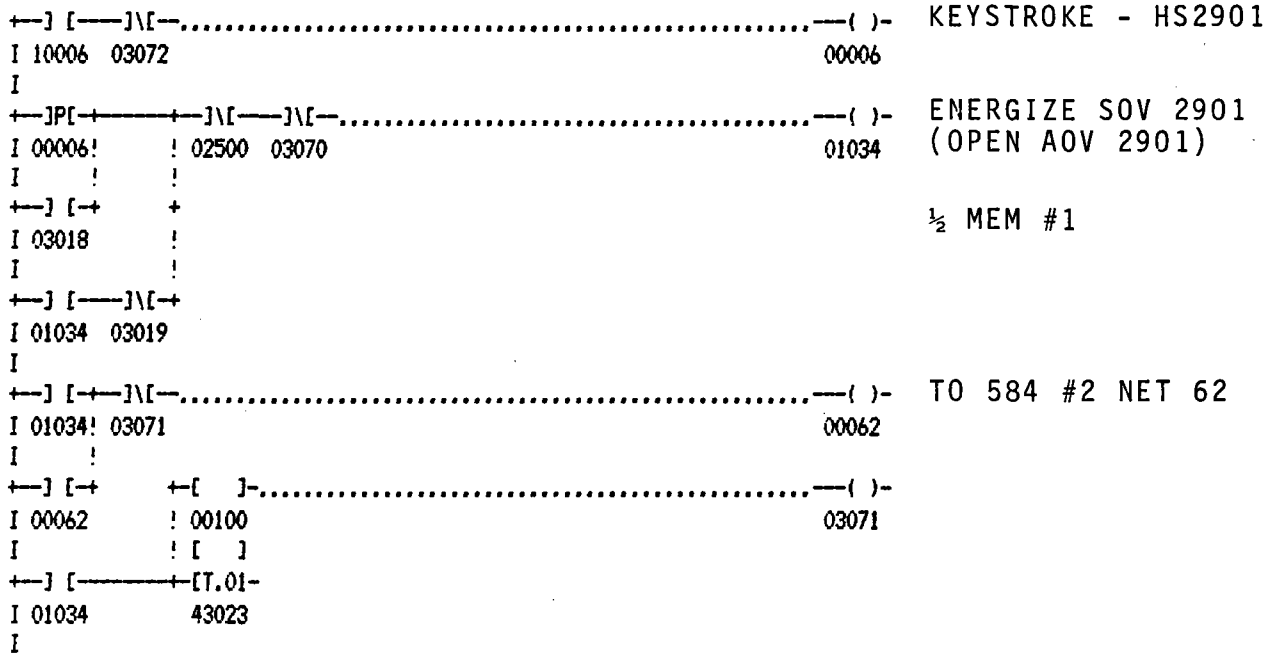
←-----[]-
 I 40106
 I []
 I -[]- +[]-.....-()- LEVEL < 25%
 I 43013 ! 00400 03017

I [] ! []
 I -[SUB-----+[T.01-
 I 48011 43157
 I
 I
 I
 I

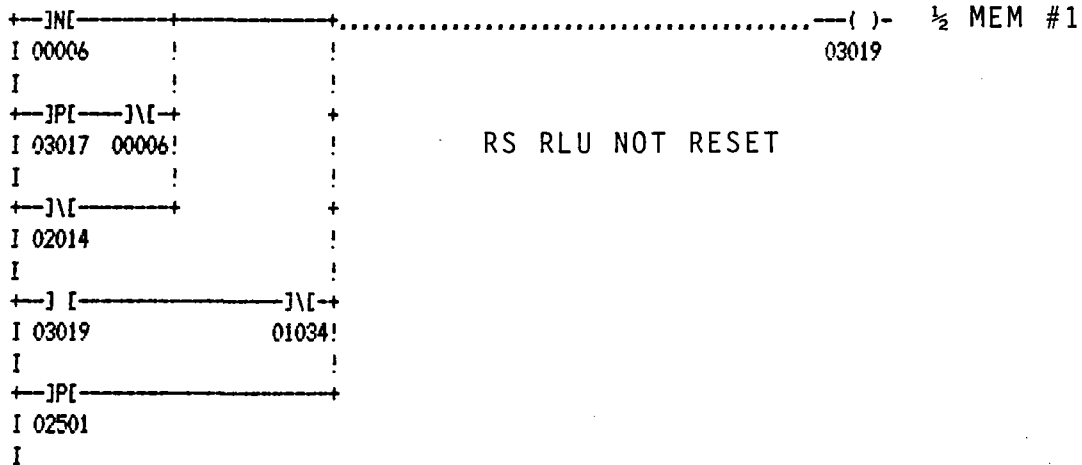
←-----[]-----+[]-.....-()- LEVEL > 75%
 I 40106 ! 00400 03018

I [] ! []
 I -[]- +-[T.01-
 I 43014 43158
 I []
 I -[SUB -
 I 48012
 I

NETWORK: 00026 SEGMENT: 001 AOV 2901



NETWORK: 00027 SEGMENT: 001 AOV 2901



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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

ID44789

REV

G

SHEET

27

NETWORK: 00028 SEGMENT: 001 AOV 2901

```

+ ]PI--+ ]\[- ..... ( )-
I 03017! 03073          03072  I SECOND LOW LEVEL
I      !                RESET
+ ] [ +-----+ [ ]- ..... ( )-
I 03072      ! 00100          03073
I      ! [ ]
I      +-[T.01-
I      43024
I
+ ] [ + ]\[- ..... ( )-
I 03070! 11928 02500        03070  AOV 2901 DISABLE WHEN
I      !                ENERGIZED
+ ] [ +      + ]\[- ..... ( )-
I 11929      ! 03070          01931  DEDICATED SW-ENABLE
I      !                LITE (GREEN) HS2901A
+-----+ ] [ ]- ..... ( )-
I      ! 03070          01932  DEDICATED SW-DISABLE
I      !                LITE (RED)
I      !
I      + ] [ ]- ..... ( )-
I      03070          02028  ALARM - AOV 2901
I      !                DISABLED ZAI2901
I

```

NETWORK: 00029 SEGMENT: 001 AOV 2004

```

+ ] [ ]- ..... ( )-
I 10007      !                00007  KEYSTROKE HS 2004
I      !
+-----+ ] [ +      + ] [ ]- ..... ( )-
I      03082!      ! 11064          02001  OPEN LITE
I      !                !                ZI 2004
+ ] [ ]- ] [ +      + ] [ ]- ..... ( )-
I 11064 03080      ! 11063          02002  CLOSE LITE
I      !
+-----+ ]\[- ]\[- ] [ ]- ..... ( )-
I      00007 03080 02014          01025  ENERGIZE SOV 2004
I      !                !                (CLOSED AOV 2004)
+ ] [ + ..... ( )-
I 11064! RS RLU Ready          00061  TO 584 #2 NETS 7 AND 61
I      !
+ ]PI--+
I 00007
I

```

**** END OF LISTING ****

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MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV G	SHEET 28	

NETWORK: 00030 SEGMENT: 001 AOV 2004

←-]P[←-] \ [- ()- INITIALIZATION - OPEN
 I 02501! 03081 03080
 I !

←-] [←-
 I 03080
 I

←-] [←- [] - ()- INITIALIZATION TIMER
 I 03080! 00300 03081
 I ! []

I +-[T.01-
 I 43080
 I

←-] \ [←-] \ [←- [] - ()- RESET KEYSTROKE
 I 00007 11063! 00050 03082
 I ! []

I +-[T.01-
 I 43081
 I

NETWORK: 00031 SEGMENT: 001 STEAM DUMP RESET

←-] [←-] \ [←-] \ [- ()- KEYSTROKE - HS1001B
 I 10027 03000 02500 00027 (ONE SECOND)
 I

←-] [←- [] - ()-
 I 00027! 00100 03000
 I ! []
 I +-[T.01-
 I 43000
 I

←-] [←-] \ [- ()- ENERGIZE RELAY TO
 I 00027 02500 01619 RESET
 I

←-] [←-] \ [- ()- SDS DEDICATED PUSH BUTTON
 I 11946! 01619 02030 TRIP QI 6003
 I !

←-] [←-
 I 02030
 I

NETWORK: 00032 SEGMENT: 001

 * EMPTY NETWORK *

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SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

D

SHEET

29

NETWORK: 00033 SEGMENT: 001 MOV 1031

```

+-] [-----].....-( )- KEYSTROKE - HS1031
I 10020 00020
I
+-] [-----].....-( )- CLOSE COMMAND
I 00020! 03150 01364
I !
+-] [+ +[ ]-.....-( )- PULSE TIMER
I 01364 ! 00100 03150
I ! [ ]
+-] [-----]T.01-
I 01364 43120
I
+-] [P+ ]\[-.....-( )- OPEN COMMAND
I 00020! 03153 01363
I !
+-] [+ +[ ]-.....-( )- PULSE TIMER
I 01363 ! 00100 03153
I ! [ ]
+-] [-----]T.01-
I 01363 43121
I
  
```

NETWORK: 00034 SEGMENT: 001 MOV 1031

```

+-] [-----].....-( )- CLOSE LITE
I 11321 ZS1031A 01992 ZI1031
I
+-] [-----].....-( )- OPEN LITE
I 11322 ZS1031B 01991
I
+-] [-----].....-( )- OVERLOAD ALARM - IIH1031
I 11323 ISH1031 02026
I
  
```

NETWORK: 00035 SEGMENT: 001 MOV 1031

 * EMPTY NETWORK *

NETWORK: 00036 SEGMENT: 001 AOV 2914

```

+ ] [ --- ] \ [ - ..... ( ) - KEYSTROKE HS 2914
I 10010 02500 00010
I
+ ] [ + ..... ( ) - ENERGIZE SOV 2914
I 00010! 01045 (OPEN AOV 2914)
I !
+ ] \ [ + ZS 2905A
I 11057
I
  
```

NETWORK: 00037 SEGMENT: 001 AOV 2914

 * EMPTY NETWORK *

NETWORK: 00038 SEGMENT: 001 AOV 2915

```

+ ] [ --- ] \ [ - ..... ( ) - KEYSTROKE - HS2915
I 10011 02500 00011
I
+ ] [ + ..... ( ) - ENERGIZE SOV 2915
I 00011! 01044 (OPEN AOV 2915)
I !
+ ] \ [ + ZS 2905B
I 11057
I
  
```

NETWORK: 00039 SEGMENT: 001 AOV 2915

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
REV	D	SHEET	31

NETWORK: 00040 SEGMENT: 001 LV 1010
 LS 1010

←]N[←[]-.....	—()-	LEVEL H1
I 11186! 00100	03101	
I ! []		
I ←[T.01-		
I 43100		
I		
←]N[←]N[←.....	—()-	ENERGIZE SOV 1010
I 03101 00015	01154	(CLOSE LV 1010)
I ZS 1010A		
←] [←.....	—()-	SDPC CLOSE LITE
I 11187	01986	ZI1010
I ZS 1010B		
←] [←.....	—()-	SDPC OPEN LITE
I 11188	01985	
I		
←] [←.....	—()-	ALARM LEVEL H1 - LIH 1010
I 03101	01981	
I		
←] [←]N[←.....	—()-	KEYSTROKE HS 1010
I 10015 02500	00015	
I		

NETWORK: 00041 SEGMENT: 001 LV 1010

 * EMPTY NETWORK *

SIZE	FSCM NO.	DRAWING NO.
A	18355	1044789
REV	D	SHEET 32

NETWORK: 00042 SEGMENT: 001 LV 1011

```

+---] \ [ + [ ] - ..... --- ( ) - LEVEL HI
I 11194! 00100                                03105
I      ! [ ]
I      + [ T.01 -
I      43101
I

+---] \ [ --- ] \ [ --- ..... --- ( ) - ENERGIZE SOV 1011 (CLOSE
I 03105 00016                                01158 LV 1010)
I

+---] [ - ..... --- ( ) - SDPC CLOSE LITE
I 11195                                        01988 ZI1011
I

+---] [ - ..... --- ( ) - SDPC OPEN LITE
I 11196                                        01987
I

+---] [ - ..... --- ( ) - ALARM LEVEL H1-LIH 1011
I 03105                                        01982
I

+---] [ --- ] \ [ --- ..... --- ( ) - KEYSTROKE - HS 1011
I 10016 02500                                00016
I
  
```

NETWORK: 00043 SEGMENT: 001 LV 1011

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
REV	D		SHEET 33

NETWORK: 00044 SEGMENT: 001 LV 1012

```

+-] \ [ + [ ] ..... ( )- LEVEL H1
I 11197! 00100 ..... 03109
I ! [ ]
I +-[T.01-
I 43102
I

+-] \ [ - ] \ [ - ..... ( )- ENERGIZE SOV 1012 (CLOSE
I 03109 00017 ..... 01159 LV 1012)
I

+-] [ - ..... ( )- SDPC CLOSE LITE
I 11198 ..... 01990 ..... ZI 1012
I

+-] [ - ..... ( )- SDPC OPEN LITE
I 11199 ..... 01989
I

+-] [ - ..... ( )- ALARM LEVEL H1 - LIH 1012
I 03109 ..... 01983
I

+-] [ - ] \ [ - ..... ( )- KEYSTROKE HS 1012
I 10017 02500 ..... 00017
I
  
```

NETWORK: 00045 SEGMENT: 001 LV 1012

 * EMPTY NETWORK *

DITTO

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MCDONNELL DOUGLAS

SIZE	FSCM NO.	DRAWING NO.
A	18355	1D44789
REV	D	SHEET 34

NETWORK: 00046 SEGMENT: 001 LV 1013

←] \ [← [] -.....	—()-	LEVEL HI
I 11204! 00100	04010	
I ! []		
I ← [T.01-		
I 44004		
I		
←] \ [—] \ [—.....	—()-	ENERGIZE SOV 1013
I 04010 00068	01160	(CLOSED LV 1013)
I		
←] [—.....	—()-	SDPC CLOSE LITE
I 11237	02104	ZI1013
I		
←] [—.....	—()-	SDPC OPEN LITE
I 11238	02103	
I		
←] [—.....	—()-	ALARM LEVEL HI-
I 04010	02102	LIH1013
I		
←] [—] \ [—.....	—()-	KEYSTROKE HS 1013
I 10068 02500	00068	
I		

NETWORK: 00047 SEGMENT: 001 LV 1013

 * EMPTY NETWORK *

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

G

SHEET

35

NETWORK: 00048 SEGMENT: 001 LV 1015

```

+---]N[---]N[ ]-.....-( )- LEVEL H1
I 11205! 00100 03113
I ! [ ]
I +---[T.01-
I 43103
I
+---]N[---]N[---.....-( )- ENERGIZE SOV 1015
I 03113 00018 01167 (CLOSE LV 1015)
I
+---] [---.....-( )- SDPC CLOSE LITE
I 11233 02024 -----ZI1015
I
+---] [---.....-( )- SDPC OPEN LITE
I 11234 02023
I
+---] [---.....-( )- ALARM LEVEL H1 - LIH 1015
I 03113 01984
I
+---] [---]N[---.....-( )- KEYSTROKE - HS 1015
I 10018 02500 00018
I
  
```

NETWORK: 00049 SEGMENT: 001 LV 1015

 * EMPTY NETWORK *

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 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

D

SHEET

36

NETWORK: 00050 SEGMENT: 001 LV 1016

LS 1016A ZS 1016B

←] [—] [←[]-.....—()- LEVEL HIGH

I 11206 11207! 00100 03117

I ! []

I ←[T.01-

I 43104

I

←] [—] [←].....—()- ENERGIZE SOV 1016
 I 03117 00019 01168 (CLOSE LV 1016)

I ZS 1016A

←] [—].....—()- SDPC CLOSE LITE

I 11235 02018

ZI1016

I ZS 1016B

←] [—].....—()- SDPC OPEN LITE

I 11236 02017

I

←] [—] [←].....—()- ALARM LEVEL HI - LIH1016

I 03117 02015

I

←] [—] [←].....—()- KEYSTROKE HS 1016

I 10019 02500 00019

I

NETWORK: 00051 SEGMENT: 001 LV 1016

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO.
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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

D

SHEET

37

NETWORK: 00052 SEGMENT: 001 FV 1006

ZS 1001B
 +--] [---.....--()- ENERGIZE SOV 1006
 I 11191 01156 (OPEN FV 1006)
 I ZS 1006B
 +--] [---.....--()- SDPC OPEN LITE
 I 11193 01993 ZI1006
 I ZS 1006A
 +--] [---.....--()- SDPC CLOSED LITE
 I 11192 01994
 I

NETWORK: 00053 SEGMENT: 001 FV 1006

 * EMPTY NETWORK *

NETWORK: 00054 SEGMENT: 001 AOV 1009

+--] [---.....--()- ENERGIZE SOV 1009
 I 11697 01186 (OPEN AOV 1009)
 I

NETWORK: 00055 SEGMENT: 001 AOV 1009

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1044789
REV <i>D</i>	SHEET <i>38</i>	

NETWORK: 00058 SEGMENT: 002 FV 1007

←] [—.....—()- SOV 1007 ENERGIZE OPEN
 I 11185 01155
 I

NETWORK: 00059 SEGMENT: 002 FV 1007

←] [—.....—()- SDPC OPEN LITE
 I 11190 01995 ZI 1007
 I
 ←] [—.....—()- SDPC CLOSE LITE
 I 11189 01996
 I

NETWORK: 00060 SEGMENT: 002 FV 1007

 * EMPTY NETWORK *

NETWORK: 00061 SEGMENT: 002 SDS TRIP

←] [—.....—()- OVERTEMP TRIP TO SDS -
 I 11698 TS 1002 01623 PV 1001 (THRU PTL)
 I

**** END OF LISTING ****

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MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV E	SHEET 40	

NETWORK: 00062 SEGMENT: 002 MOV 1030

```

+ ] [ - ..... ( )- KEYSTROKE - HS1030
I 10072 00072
I
+ ] [ - ..... ( )- CLOSE MOV 1030
I 00072! 04022 01362 1 SECOND PULSE
I !
+ ] [ + + [ ] - ..... ( )-
I 01362 ! 00100 04022
I ! [ ]
+ ] [ - + [ T.01 -
I 01362 44010
I
+ ] [ + + [ ] - ..... ( )- OPEN MOV 1030
I 00072! 04023 01361 1 SECOND PULSE
I !
+ ] [ + + [ ] - ..... ( )-
I 01361 ! 00100 04023
I ! [ ]
+ ] [ - + [ T.01 -
I 01361 44011
I
  
```

NETWORK: 00063 SEGMENT: 002 MOV 1030

```

+ ] [ - ..... ( )- SDPC CLOSE INDICATION
I 11318 ZS1030A 02110 ZI1030
I
+ ] [ - ..... ( )- SDPC OPEN INDICATION
I 11319 ZS1030B 02109
I
+ ] [ - ..... ( )- SDPC OVER CURRENT
I 11320 ISH1030 02155 ALARM I1H1030
I
  
```

NETWORK: 00064 SEGMENT: 002 MOV 1030

 * EMPTY NETWORK *

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NETWORK: 00065 SEGMENT: 002 MOV 1132

```

+-] [---.....-( )- KEYSTROKE - HS 1132
I 10102 00102
I
+-]N[+-]N[---.....-( )- CLOSE MOV 1132
I 00102! 04026 01668 1 SECOND PULSE
I !
+-] [+ +[ ]-.....-( )-
I 01668 ! 00100 04026
I ! [ ]
+-] [-----+T.01-
I 01668 44012
I
+-]N[+-]N[---.....-( )- OPEN MOV 1132
I 00102! 04027 01667 1 SECOND PULSE
I !
+-] [+ +[ ]-.....-( )-
I 01667 ! 00100 04027
I ! [ ]
+-] [-----+T.01-
I 01667 44013
I
  
```

NETWORK: 00066 SEGMENT: 002 MOV 1132

```

+-] [---.....-( )- SDPC CLOSE INDICATION
I 11726 ZS1132A 02151 ZI1132
I
+-] [---.....-( )- SDPC OPEN INDICATION
I 11727 ZS1132B 02150
I
+-] [---.....-( )- SDPC OVERCURRENT ALARM
I 11728 ISH1132 02152 IIH1132
I
  
```

NETWORK: 00067 SEGMENT: 002 MOV 1132

 * EMPTY NETWORK *

NETWORK: 00068 SEGMENT: 002 P 307 TS FLASH TANK DRAIN PUMP

```

+-----] [ ]-----+ [ ]-----+----- ( )----- LEVEL HI (45" TBD)
I 40212 ! 00500 04028
I [ ] ! [ ]
I -[ ]- +-[T.01]-
I 44001 44014
I [ ]
I -[SUB -
I 48014
I
+-----] [ ]-----+ [ ]-----+----- ( )----- LEVEL LO (3")
I 40212 ! 00500 04029
I [ ] ! [ ]
I -[ ]- +-[T.01]-
I 44015 ! 44016
I [ ] !
I -[SUB -----+
I 48015
I
+ ] [ ] [ ]-----+----- ( )----- ALARM P 307 TROUBLE
I 04028 11210 02116 UI 3112
I
  
```

NETWORK: 00069 SEGMENT: 002 P 307 TS FLASH TANK DRAIN PUMP

```

+ ] [ ] [ ]-----+----- ( )----- ENERGIZE COIL 74 WHEN
I 00074 11209! 00100 00121 P 307 AUTO STARTS
I ! [ ]
I +-[T.01]-
I 44008
I
+ ] [ ] [ ]-----+----- ( )----- LEVEL HI
I 04028! 04007 04013
I !
I + [ ]-----+----- ( )----- PULSE TIMER
I ! 00100 04007
I ! [ ]
I +-[T.01]-
I 44007
I
  
```

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	REV G	SHEET 43	

NETWORK: 00070 SEGMENT: 002 P 307 TS FLASH TANK DRAIN PUMP

```

+JPC[+]JVC[+]JVC[+].....-( )- START COMMAND OUT
I 00074! 04029 04032 01187 1.5 SECOND PULSE
I !
+ ] [ +
I 04013!
I !
+ ] [ +
I 01187
I
+ ] [ + [ ] - JVC[+].....-( )-
I 01187! 00400 02113 04032
I ! [ ]
I +[T.01-
I 44017
I
+ ] [ -.....-( )- SDPC STOPPED LITE
I 11210 02114 ZI3112
I
+ ] [ -.....-( )- SDPC RUNNING LITE
I 11209 02113
I
  
```

NETWORK: 00071 SEGMENT: 002 P 307 TS FLASH TANK DRAIN PUMP

```

+JNC[+]JVC[+].....-( )-
I 00074! 04033 04016
I !
+ ] [ +
I 04016
I
+ ] [ + [ ] -.....-( )-
I 04016! 00100 04033
I ! [ ]
I +[T.01-
I 44009
I
+JVC[+]JVC[+].....-( )- P 307 STOP COMMAND
I 04016 04029 01188 AND LO LEVEL LOCKOUT
I OUTPUT
+ ] [ + [ ] - JVC[+].....-( )-
I 00074! 00200 11209 04031 RESET 266 IF P307
I ! [ ] FAILS TO START AFTER
I +[T.01- 2 SECONDS
I 44044
I
  
```

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NETWORK: 00072 SEGMENT: 002 P 307 TS FLASH TANK DRAIN PUMP

```

+--] [---].....--( )-   OVERCURRENT - I1H3112
I 11215                   02156
I
+--] [---] [---].....--( )-   KEYSTROKE - HS3112
I 10074 01188! 04031       00074
I
+--] [---].....
I 00121
I
  
```

NETWORK: 00073 SEGMENT: 002 AOV 3817

```

+--] [---].....--( )-   KEYSTROKE - HS 3817
I 10094 02500             00094
I
+--].....--( )-   ENERGIZE SOV3817 TO
I 00094                 01225   CLOSE AOV3817
I
+--].....--( )-   TO NET 236
I 00094                 04242
I
  
```

NETWORK: 00074 SEGMENT: 002 AOV 3817

 * EMPTY NETWORK *

**** END OF LISTING ****

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REV	G	SHEET
		45

NETWORK: 00075 SEGMENT: 002 AOV 3708

←] [---] [---] \ [---] ()- KEYSTROKE - HS3708
I 10075 02148 02500 00075
I
←] [---] [---] \ [---] ()- ENERGIZE TO OPEN
I 00075 02148 02500 01224
I

NETWORK: 00076 SEGMENT: 002 AOV 3708

* EMPTY NETWORK *

NETWORK: 00077 SEGMENT: 002 AOV 3808

←] [---] [---] \ [---] ()- KEYSTROKE - HS3808
I 10076 02148 02500 00076
I
←] [---] [---] \ [---] ()- ENERGIZE TO OPEN
I 00076 02148 02500 01227
I

NETWORK: 00078 SEGMENT: 002 AOV 3808

* EMPTY NETWORK *

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MCDONNELL DOUGLAS

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REV

G

SHEET

46

NETWORK: 00079 SEGMENT: 002 AOV 3807

```

+ ] [---]V[---.....( )- KEYSTROKE
I 10077 02500 00077 HS 3807
I
+ ]V[---]V[---.....( )- ENERGIZE TO CLOSE
I 00077 02500 01251
I
  
```

NETWORK: 00080 SEGMENT: 002 AOV 3807

 * EMPTY NETWORK *

NETWORK: 00081 SEGMENT: 002 AOV 3707

```

+ ] [---]V[---.....( )- KEYSTROKE
I 10078 02500 00078 HS3707
I
+ ]V[---]V[---.....( )- ENERGIZE TO CLOSE
I 00078 02500 01249
I
  
```

NETWORK: 00082 SEGMENT: 002 AOV 3707

 * EMPTY NETWORK *

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	A	18355	1D44789
	REV	G	SHEET 47

NETWORK: 00083 SEGMENT: 002 AOV 3318

```

+ ] [ --- ] \ [ --- ..... --- ( ) - KEYSTROKE
I 10079 02500 00079 HS3318
I
+ ] \ [ --- ] \ [ --- ..... --- ( ) - ENERGIZE TO CLOSE
I 00079 02500 01345
I
  
```

NETWORK: 00084 SEGMENT: 002 AOV 3318

 * EMPTY NETWORK *

NETWORK: 00085 SEGMENT: 002 AOV 3218

```

+ ] [ --- ] \ [ --- ..... --- ( ) - KEYSTROKE
I 10080 02500 00080 HS3218
I
+ ] \ [ --- ] \ [ --- ..... --- ( ) - ENERGIZE TO CLOSE
I 00080 02500 01346
I
  
```

NETWORK: 00086 SEGMENT: 002 AOV 3218

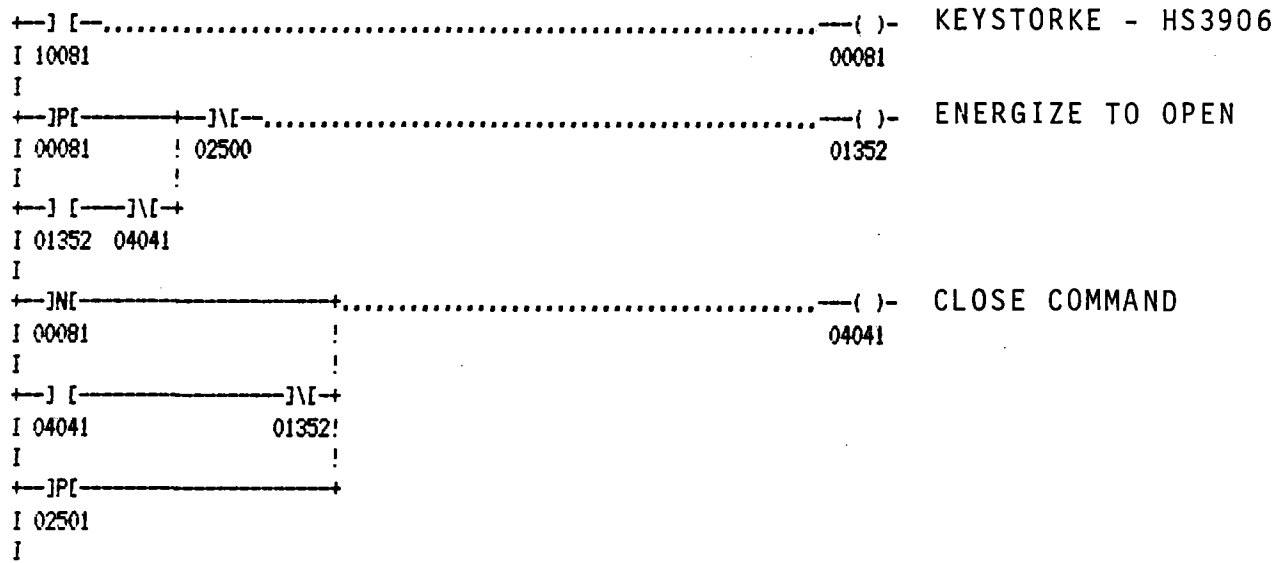
 * EMPTY NETWORK *

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REV G	SHEET 48	

NETWORK: 00087 SEGMENT: 002 AOV 3906

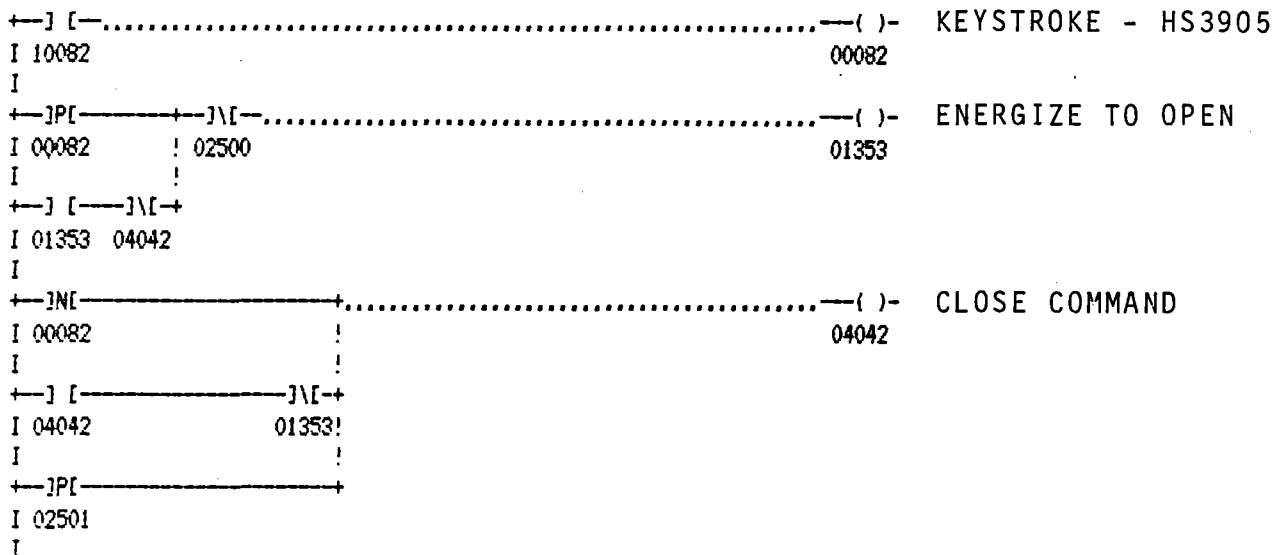


NETWORK: 00088 SEGMENT: 002 AOV 3906

 * EMPTY NETWORK *

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	A	18355	1D44789
REV	G	SHEET	49

NETWORK: 00089 SEGMENT: 002 ADV 3905



NETWORK: 00090 SEGMENT: 002 ADV 3905

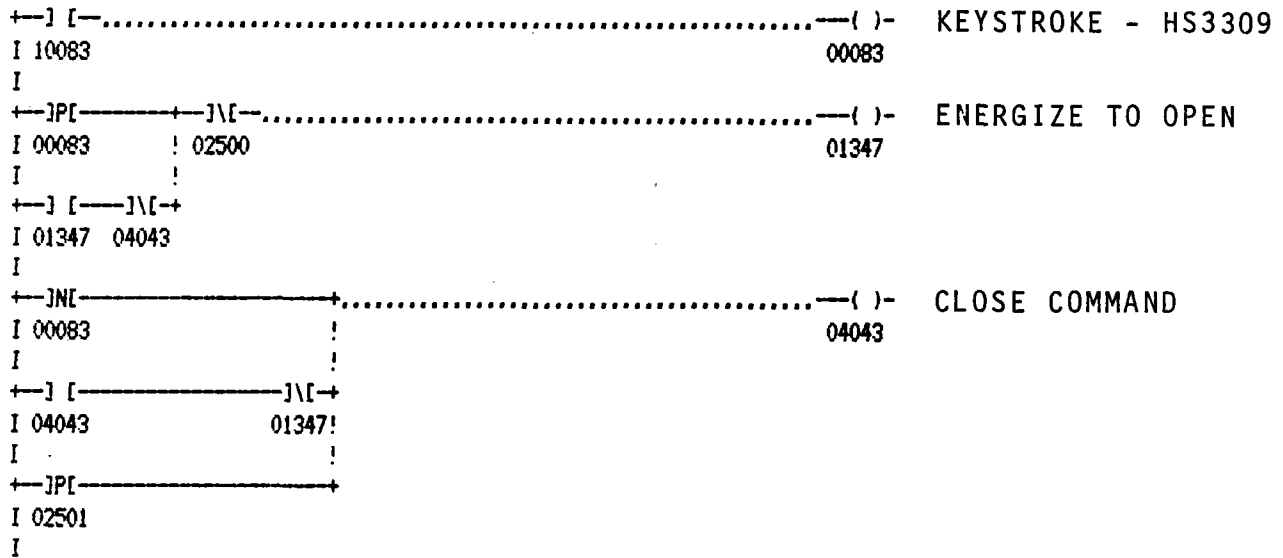
 * EMPTY NETWORK *

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SIZE	FSCM NO.	DRAWING NO.
A	18355	1044789
REV	G	SHEET
		50

NETWORK: 00091 SEGMENT: 002 AOV 3309



NETWORK: 00092 SEGMENT: 002 ADV 3309

 * EMPTY NETWORK *

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

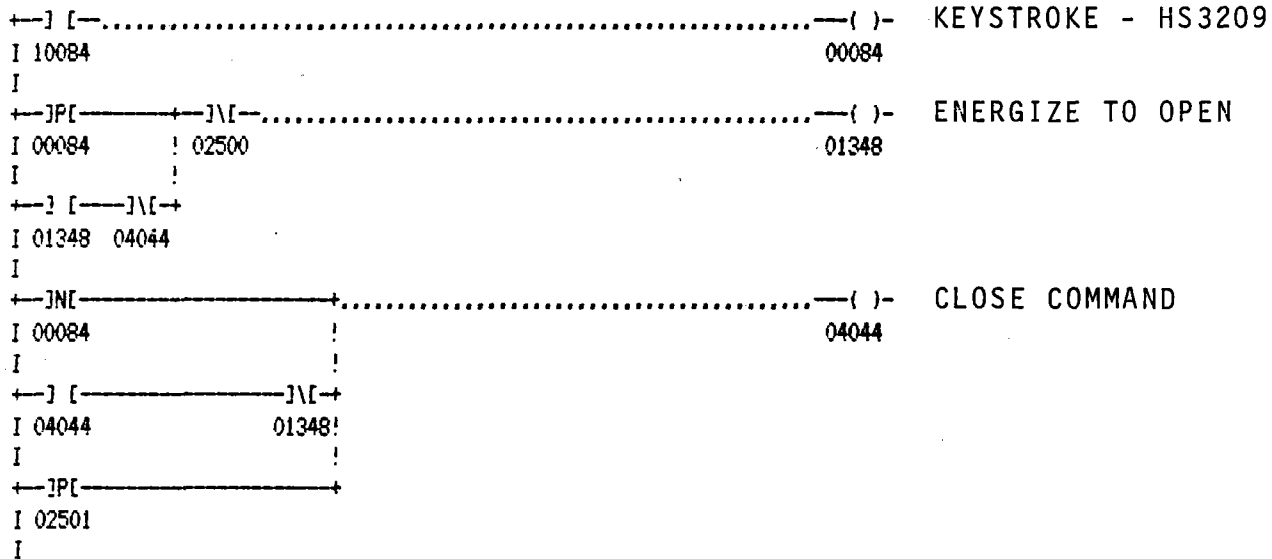
REV

G

SHEET

51

NETWORK: 00093 SEGMENT: 002 AOV 3209



NETWORK: 00094 SEGMENT: 002 ADV 3209

* EMPTY NETWORK *

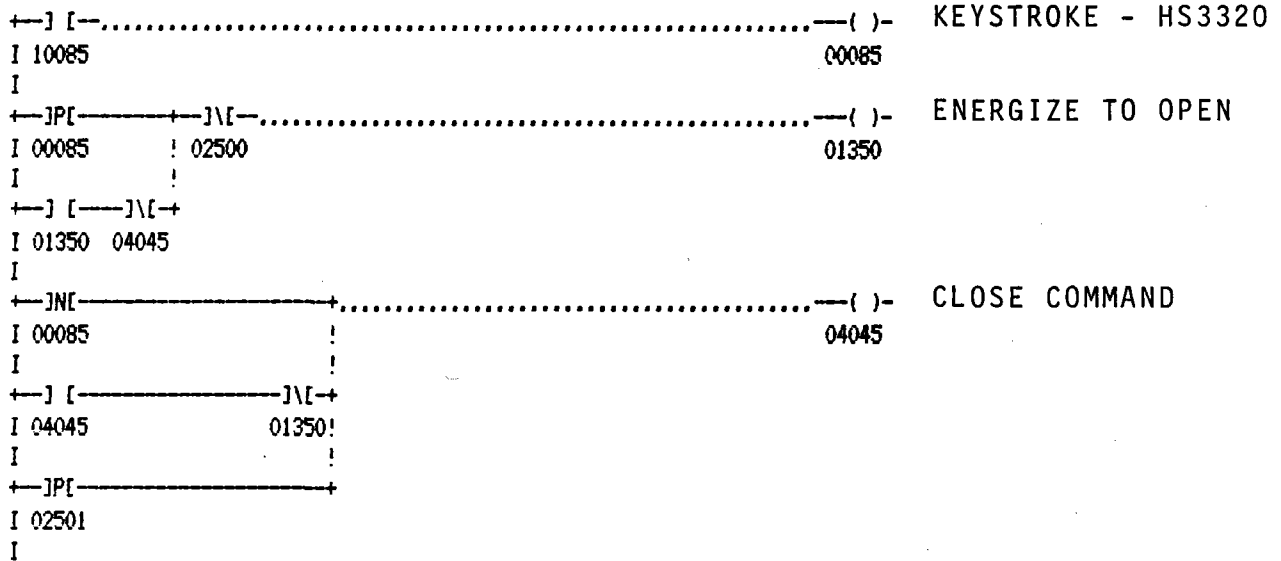
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SIZE	FSCM NO.	DRAWING NO.
A	18355	1D44789
REV	G	SHEET
		52

NETWORK: 00095 SEGMENT: 002 AOV 3320



NETWORK: 00096 SEGMENT: 002 ADV 3320

 * EMPTY NETWORK *

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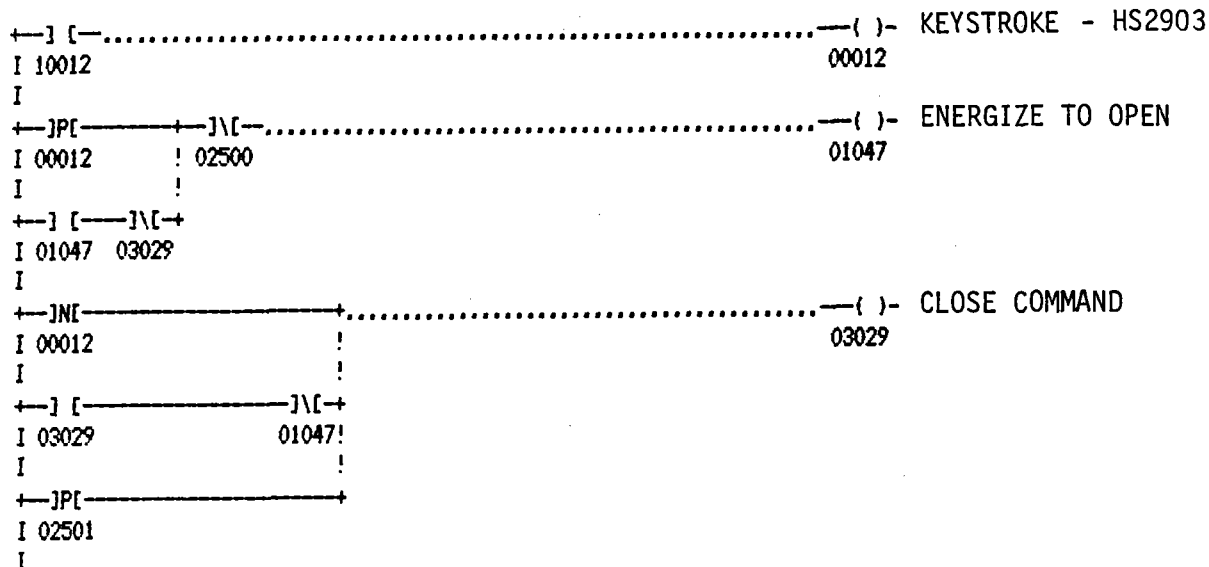
REV

G

SHEET

53

NETWORK: 00097 SEGMENT: 002 AOV 2903

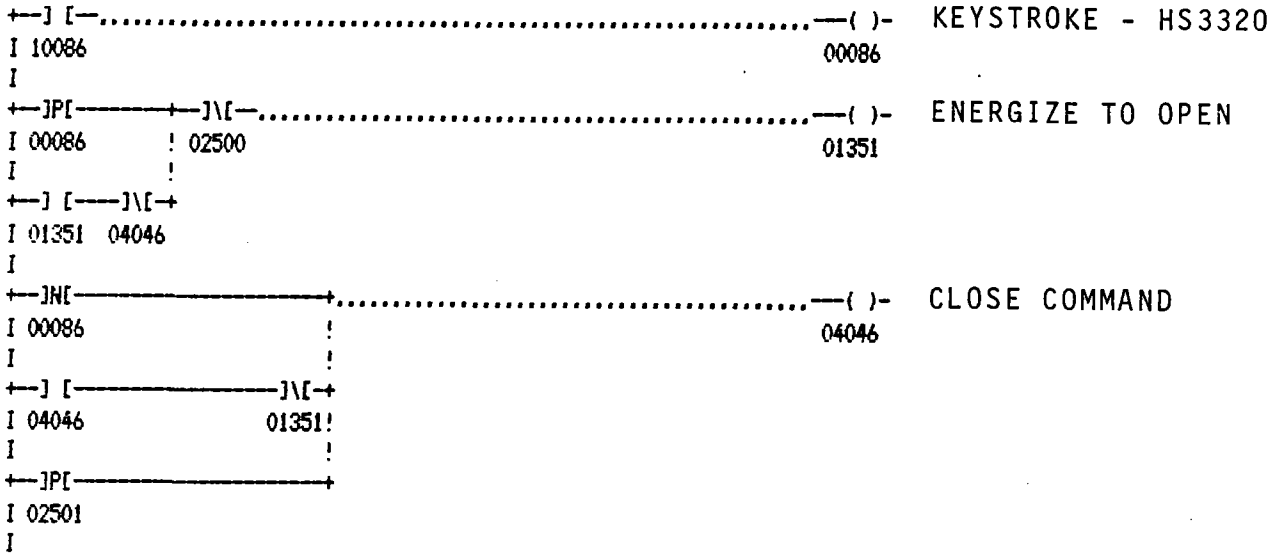


NETWORK: 00098 SEGMENT: 002 AOV 2903

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
REV	D	SHEET	54

NETWORK: 00099 SEGMENT: 002 AOV 3320



NETWORK: 00100 SEGMENT: 002 AOV 3220

 * EMPTY NETWORK *

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SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

G

SHEET

55

NETWORK: 00101 SEGMENT: 002 AOV 3005

```

+ ] [ --- ] [ --- ] \ [ --- ] ..... ( )- KEYSTROKE - HS3005
I 10087 02148 02500 00087
I
+ ] [ --- ] [ --- ] \ [ --- ] ..... ( )- ENERGIZE TO OPEN
I 00087 02148 02500 01237
I
  
```

NETWORK: 00102 SEGMENT: 002 AOV 3005

 * EMPTY NETWORK *

NETWORK: 00103 SEGMENT: 002 AOV 3907

```

+ ] [ --- ] \ [ --- ] \ [ --- ] ..... ( )- KEYSTROKE - HS3907
I 10088 04415 02500 00088
I
+ ] [ --- ] \ [ --- ] \ [ --- ] ..... ( )- ENERGIZE TO OPEN
I 00088 04415 02500 01228
I
  
```

NETWORK: 00104 SEGMENT: 002 AOV 3907

 * EMPTY NETWORK *

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SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

56

NETWORK: 00105 SEGMENT: 002 AOV 3004

+-] [---] \[---] \[-----()- KEYSTROKE - HS3004
I 10089 04415 02500 00089
I
+-] [---] \[---] \[-----()- ENERGIZE TO OPEN
I 00089 04415 02500 01236
I

NETWORK: 00106 SEGMENT: 002 AOV 3004

* EMPTY NETWORK *

NETWORK: 00107 SEGMENT: 002 AOV 3003

+-] [---] \[---] \[-----()- KEYSTROKE HS 3003
I 10090 04415 02500 00090
I
+-] \[---] \[---] \[-----()- ENERGIZE TO CLOSE
I 00090 04415 02500 01235
I

NETWORK: 00108 SEGMENT: 002

* EMPTY NETWORK *

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SIZE

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REV

G

SHEET

57

NETWORK: 00109 SEGMENT: 002 AOV 3002

```

+ ] [ --- ] \ [ --- ] \ [ --- ] \ [ ..... ( ) - KEYSTROKE - HS 3002
I 10091 04415 02500 00091
I
+ ] \ [ --- ] \ [ --- ] \ [ ..... ( ) - ENERGIZE TO CLOSE
I 00091 04415 02500 01234
I
  
```

NETWORK: 00110 SEGMENT: 002

 * EMPTY NETWORK *

NETWORK: 00111 SEGMENT: 003 AOV 3001

```

+ ] [ --- ] \ [ --- ] \ [ ..... ( ) - KEYSTROEK - HS 3001
I 10092 04415 02500 00092
I
+ ] \ [ --- ] \ [ --- ] \ [ ..... ( ) - ENERGIZE TO CLOSE
I 00092 04415 02500 01233
I
  
```

NETWORK: 00112 SEGMENT: 003

 * EMPTY NETWORK *

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MCDONNELL DOUGLAS

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REV	G	SHEET 58

NETWORK: 00113 SEGMENT: 003 AOV 3717

```

+ ] [ ] [ ] ..... ( )- KEYSTROKE - HS3717
I 10093 02500 00093
I
+ ] [ ] ..... ( )- DEENERGIZE TO OPEN
I 00093 01217
I
+ ] [ ] ..... ( )- TO NET 226
I 00093 04222
I
  
```

NETWORK: 00114 SEGMENT: 003 AOV 3717

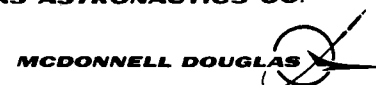
 * EMPTY NETWORK *

NETWORK: 00115 SEGMENT: 003 AOV 3206

```

+ [ ] + [ ] ..... ( )- OIL FLOW > 120 GPM
I 40302 ! 00200 04054
I [ ] ! [ ]
I - [ ] - + [IT.01-
I 44018 44019
I [ ]
I - [SUB -
I 48016
I
  
```

**** END OF LISTING ****

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. 	SIZE	FSCM NO.	DRAWING NO.
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NETWORK: 00116 SEGMENT: 003 AOV 3206

```

+-] [---] \ [---] \ [---] ..... ( )- KEYSTROKE - HS3206
I 10095 04062 02500 00095
I
+-] [+-] \ [---] ..... ( )- 1 SECOND OPEN PULSE
I 00095! 04058 04057
I !
I +-[ ]- ..... ( )-
I ! 00100 04058
I ! [ ]
I +-[T.01-
I 44020
I
+-] \ [---] \ [---] ..... ( )- 1 SECOND CLOSE PULSE
I 00095! 04060 04059
I !
I +-[ ]- ..... ( )-
I ! 00100 04060
I ! [ ]
I +-[T.01-
I 44021
I
  
```

NETWORK: 00117 SEGMENT: 003 AOV 3206

```

+-] [---] [+-] \ [---] ..... ( )- ENERGIZE SOV 3206
I 04054 04057! 02500 01355 (OPEN AOV 3206)
I !
+-] [---] \ [---]
I 01355 04061
I
+-] [-----] ..... ( )- CLOSE COMMAND
I 04059 04061
I !
+-] \ [-----]
I 04054 !
I !
+-] [-----] \ [---]
I 04061 01355!
I !
+-] \ [-----] +-[ ]- \ [---] ..... ( )- KEYSTROKE RESET IF 1355
I 02501 ! 00300 01355 04062 DOES NOT ENERGIZE OR IF
I ! [ ] IT DEENERGIZES ON LOSS
+-] [-----] +-[T.01- OF FLOW
I 00095 44031
I
  
```

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REV

G

SHEET

60

NETWORK: 00118 SEGMENT: 003

←] [—] \[—.....—()- LO OIL FLOW CLOSING ALARM
 I 04061 04054 02115 FIL3206
 I

NETWORK: 00119 SEGMENT: 003

 * EMPTY NETWORK *

NETWORK: 00120 SEGMENT: 003

FT3310
 ←— [] —→ + [] —.....—()- OIL FLOW GREATER THAN
 I 40301 ! 00200 04070 120 GPM
 I [] ! []
 I - [] - + - [T.01 -
 I 44023 44024
 I []
 I - [SUB -
 I 48017
 I

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REV

G

SHEET

61

NETWORK: 00121 SEGMENT: 003 AOV 3306

```

+ ] [ --- ] \ [ --- ] \ [ --- ] ..... ( ) - KEYSTROKE - HS3306
I 10096 04078 02500 00096
I
+ ] [ + ] \ [ --- ] ..... ( ) - OPEN COMMAND
I 00096! 04074 04073
I !
I + [ ] - ..... ( ) - PULSE TIMER
I ! 00100 04074
I ! [ ]
I + [ T.01 -
I 44025
I
+ ] \ [ + ] \ [ --- ] ..... ( ) - CLOSE COMMAND
I 00096! 04076 04075
I !
I + [ ] - ..... ( ) - PULSE TIMER
I ! 00100 04076
I ! [ ]
I + [ T.01 -
I 44028
I
  
```

NETWORK: 00122 SEGMENT: 003 AOV 3306

```

+ ] [ --- ] [ + ] \ [ --- ] ..... ( ) - ENERGIZE SOV 3306 (OPEN
I 04070 04073! 02500 01349 AOV3306)
I !
+ ] [ --- ] \ [ +
I 01349 04077
I
+ ] [ ----- ] ..... ( ) - CLOSE COMMAND
I 04075 04077
I
+ ] \ [ -----
I 04070
I
+ ] [ ----- ] \ [ +
I 04077 01349!
I !
+ ] \ [ ----- ] + [ ] - \ [ --- ] ..... ( ) - KEYSTROKE RESET IF 1349
I 02501 ! 00300 01349 04078 DOES NOT ENERGIZE OR IF
I ! [ ] IT DEENERGIZES ON LOSS
+ ] [ ----- ] + [ T.01 - OF FLOW
I 00096 44029
I
  
```

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SIZE

A

ESCM NO.

18355

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SHEET

62

NETWORK: 00123 SEGMENT: 003

+] [---] \ [- () - LO OIL FLOW CLOSING ALARM
 I 04077 04070 02117 FIL 3306
 I

NETWORK: 00124 SEGMENT: 003

 * EMPTY NETWORK *

NETWORK: 00125 SEGMENT: 003

+-----[]- +-----+ []- () - FLOW LESS THAN 30 GPM
 I 40303 ! ! 00200 04082
 I [] ! ! []
 I - []+ + + [7.0]-
 I 44030! ! 44032
 I []!
 I -[SUB +-----+
 I 48018
 I

***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
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REV	G	SHEET	63

NETWORK: 00126 SEGMENT: 003 P 305 - AUX EXTRACTION OIL PUMP

```

+ ] [ ] [ ] [ ] \ [ ] ..... ( )- KEYSTROKE - HS 3909
I 10097 11317 02148 02500 00097
I
+ ] [ ] \ [ ] ..... ( )- ENERGIZE TO RUN P305
I 00097 04084 01242
I
  
```

NETWORK: 00127 SEGMENT: 003 P 305 - AUX EXTRACTION OIL PUMP

```

+ ] [ + [ ] ..... ( )- 10 SECOND TIMER
I 00097! 01000 04087
I ! [ ]
I + [ T.01-
I 44033
I
+ ] [ ] [ ] ..... ( )- TRIP OUTPUT ON LOSS OF
I 04082 04087 04084 FLOW AFTER 10 SECONDS
I
  
```

NETWORK: 00128 SEGMENT: 003 P 305 - AUX EXTRACTION OIL PUMP

```

+ ] [ ] ..... ( )- SDPC STOPPED LITE
I 04082 02120 ZI3909
I
+ ] \ [ ] ..... ( )- SDPC RUNNING LITE
I 04082 02119
I
+ ] [ ] [ ] ..... ( )- LOW FLOW TRIP ALARM
I 04087 04082 02121 FIL3909
I
+ ] \ [ ] ..... ( )- TROUBLE ALARM - UI3909
I 11317 02122
I
  
```

NETWORK: 00129 SEGMENT: 003

 * EMPTY NETWORK *

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SIZE

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18355

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REV

G

SHEET

64

NETWORK: 00130 SEGMENT: 003

 * EMPTY NETWORK *

NETWORK: 00131 SEGMENT: 003 P 301 - CHARGING OIL PUMP

NOTES FOR P301

```

+---JP[-----] [-----] [ ]-
I 11988 02053      00000
I              [ ]
I              -[ ]-
I              00000
I              [ ]
I              -[SUB -
I              44035
I

```

11313 = ZS 3413
 11988 = HS 3413C AUTO/MAN
 11989 = HS 3413ADED START
 11990 = HS 3413ADED STOP
 FIELD TO VERIFY ZS 3413
 OPENS ON TROUBLE

```

+---JP[-----] [ ]-.....-( )-
I 11988      00001      02053
I              [ ]
+---J\ [-----] J\ [-----] [UCTR-.....-( )-
I 02500 04100 44035      02054
I

```

SDPC AUTO LITE

SDPC MAN LITE

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D

SHEET

65

NETWORK: 00132 SEGMENT: 003 P 301 - CHARGING OIL PUMP

```

+ ] [ ] \ [ ] [ ] [ ] ..... ( )- KEYSTROKE - HS3413B
I 10098 02123 02053 11313 00098
I
+ ] P [ ] [ + ] [ ] ..... ( )- START SIGNAL TO NET 134
I 00098 02053! 11313 04102
I
+ ] [ ] [ + + [ ] ..... ( )- SET MEMORY #1
I 11989 02054 ! 00100 04160
I ! [ ]
+ ] [ ] [ + [ T.01- SET COIL 98 TO "ON"
I 01239 04094 48135 FOLLOWING AUTO
I SELECTION AFTER MANUAL
+ ] [ ] \ [ ] ..... ( )- START-OUTPUT TO NET 98
I 02053 04101 00127 584 #2
I
+ ] N [ ] ..... ( )- STOP TO NET 135
I 00098 04104
I
  
```

NETWORK: 00133 SEGMENT: 003 P 301 - CHARGING OIL PUMP

```

+ ] [ ] \ [ ] ..... ( )- MEMORY #1
I 04160 ! 02500 04093
I
+ ] [ ] \ [ + PUMP RESET OUTPUT
I 04093 04094 (MEMORY #1 TO RESET)
I
+ ] [ ] ..... ( )-
I 11990 04094
I
+ ] [ ] \ [ +
I 04094 04093!
I
+ ] P [ ] + [ ] ..... ( )-
I 02501 ! 00100 04091
I ! [ ]
+ ] [ ] + [ T.01-
I 04096 44038
I
+ ] [ ] \ [ ] ..... ( )- RESET TO MANUAL AND
I 04096 04091 04100 DEENERGIZE COIL 98
I FOLLOWING ANY STOP
  
```

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REV

G

SHEET

66

NETWORK: 00134 SEGMENT: 003 P 301 - CHARGING OIL PUMP

```

+--JPI----] [+--]N[----] [----] [---.....--( )-- PUMP SIGNAL TO RLU 1/2
I 04102 04094! 02500 11313 02149 01239 MEMORY #2
I
+--] [----]N[---+
I 01239 04096
I
  
```

NETWORK: 00135 SEGMENT: 003 P 301 - CHARGING OIL PUMP 1/2 MEMORY #2

```

+--] [-----]JPI+.....--( )-- REMOVES RUN SINGAL FROM RLU
I 02053 04104! 04096
I
+--] [-----+
I 11990 !
I
+--] [-----+
I 04095 !
I
+--]N[-----+
I 11313 !
I
+--]N[-----+
I 02149 !
I
+--] [-----]N[---+
I 04096 01239!
I
+--]PI-----+
I 02501
I
  
```

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REV

D

SHEET

67

NETWORK: 00136 SEGMENT: 003 P 301 - CHARGING OIL PUMP

```

+-] [+ [ ]-.....--( )-
I 01239! 01000 04103
I ! [ ]
I +-[T.01-
I 44039
I
  
```

```

+-] [---] [---.....--( )- FLOW LESS THAN 100 GPM
I 04103 04101 04095 10 SECONDS AFTER START
I TO TRIP P301
  
```

```

+-----[ ]-
I 40302 FT3211
I [ ]
I -[ ]-
I 44036
I [ ]
  
```

```

I -[SUB -----+[ ]-.....--( )- FLOW LESS THAN 100 GPM
I 48019 ! 00300 04101
I ! [ ]
I +-[T.01-
I 44037
I
  
```

NETWORK: 00137 SEGMENT: 003 P 301 - CHARGING OIL PUMP

```

+-]P[-----+ ]\[-.....--( )- TO LO FLOW ALARM
I 01239 ! 02500 04097
I !
  
```

```

+-] [---] \[-+ MEM #3
I 04097 04098
I
  
```

```

+-] [-----+ ]\[-.....--( )-
I 11990 ! 04098
I !
  
```

```

+-] [-----] \[-+
I 04098 04097!
I !
  
```

```

+-]P[-----+
I 02501
I
  
```

```

+-] [+ ] [---.....--( )- LO FLOW TRIP ALARM
I 04095! 04097 02123 FIL3413
I !
  
```

```

+-] [+ ]
I 02123
I
  
```

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G

SHEET

68

NETWORK: 00138 SEGMENT: 003 P 301 - CHARGING OIL PUMP

```

+ ] [ - ..... ( ) - SDPC STOPPED LITE
I 04101 02126 ZI3413
I
+ ] \ [ - ..... ( ) - SDPC RUNNING LITE
I 04101 02125
I
+ ] [ + ..... ( ) - DEDICATED STOPPED LITE
I 04096! 02056
I !
+ ] [ +
I 04101
I
+ ] \ [ - ..... ( ) - PUMP SKID TROUBLE ALARM -
I 11313 02124 UI3413
I
  
```

NETWORK: 00139 SEGMENT: 003

```

+ ] [ - ] [ + ..... ( ) - DEDICATED RUNNING LITE
I 01239 04101! 02055 AND START SEQUENCE IN
I ! PROGRESS LITE
+ ] \ [ - +
I 04101
I
  
```

NETWORK: 00140 SEGMENT: 003 P 301

 * EMPTY NETWORK *

NETWORK: 00141 SEGMENT: 003 P 301

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
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	REV	D	SHEET 69

NETWORK: 00142 SEGMENT: 003 P 302 - CHARGING OIL PUMP

```

+-]P[---] [-----[ ]-
I 11991 02057 00000
I [ ]
I -[ ]-
I 00000 11314 = ZS 3414
I [ ] 11991 = HS 3414 AUTO/MAN
I -[SUB - 11992 = DED START
I 44045 11993 = DED STOP
I
+-]P[-----[ ]-.....-( )- AUTO LITE
I 11991 00001 02057
I [ ]
+-]N[---]N[---][UCTR-.....-( )- MAN LITE
I 02500 04112 44045 02058
I
  
```

NETWORK: 00143 SEGMENT: 003 P 302 - CHARGING OIL PUMP

```

+-] [---]N[---] [---] [---].....-( )- KEYSTROKE - HS3414
I 10099 02127 02057 11314 00099
I
+-]P[---] [---] [---].....-( )- START SIGNAL TO NET 145
I 00099 02057! 11314 04106
I !
+-] [---] [+ +[ ]-.....-( )- SET MEMORY #1
I 11992 02058 ! 00100 04161
I ! [ ]
+-] [---] [---] +[T.01-
I 01238 04110 48136
I
+-] [---]N[---].....-( )- SET 99 TO "ON"
I 02057 04105 00126 FOLLOWING AUTO SEL.
I AFTER MANUAL START-
+-]N[---].....-( )- OUTPUT TO NET 99, 584
I 00099 04119 #2
I STOP TO NET 146
I
  
```

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ID44789

REV

G

SHEET

70

NETWORK: 00144 SEGMENT: 003 P 302 - CHARGING OIL PUMP

```

+ ] [-----+ ]\[-.....( )- MEMORY #1
I 04161      ! 02500          04109
I
+ ] [-----+ ]\[-+
I 04109 04110
I
+ ] [-----+ ]\[-.....( )- PUMP RESET OUTPUT
I 11993      !           ! 04110 (MEMORY #1 TO RESET)
I
+ ] [-----+ ]\[-+
I 04110      04109!
I
+ ]\[-.....+ [ ]-.....( )-
I 02501      ! 00100          04117
I
+ ] [-----+ ]\[-+
I 04111      44048
I
+ ] [-----+ ]\[-.....( )- RESET TO MANUAL AND
I 04111 04117          04112 DEENERGIZE 291
I FOLLOWING ANY STOP
  
```

NETWORK: 00145 SEGMENT: 003 P 302 - CHARGING OIL PUMP

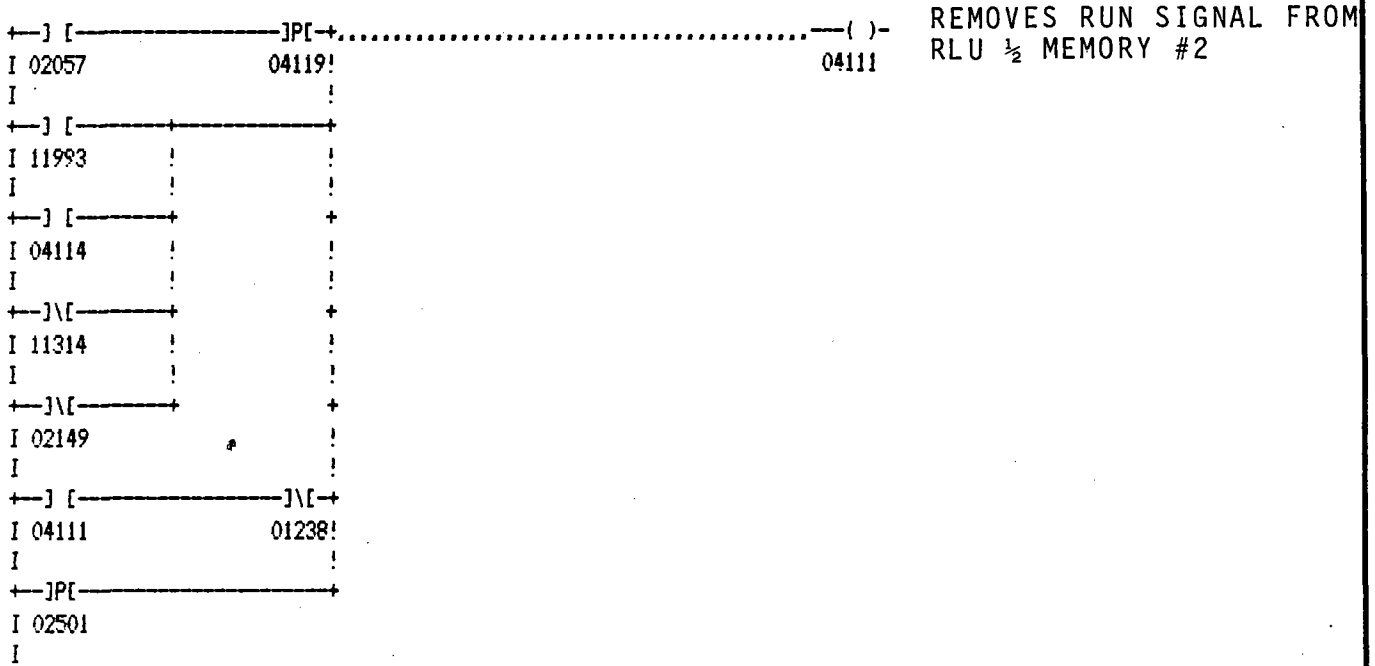
```

+ ]\[-.....+ [ ]-.....( )- PUMP RUN SIGNAL TO
I 04106 04110! 02500 11314 02149 01238 1/2 MEMORY #2
I
+ ] [-----+ ]\[-+
I 01238 04111
I
  
```

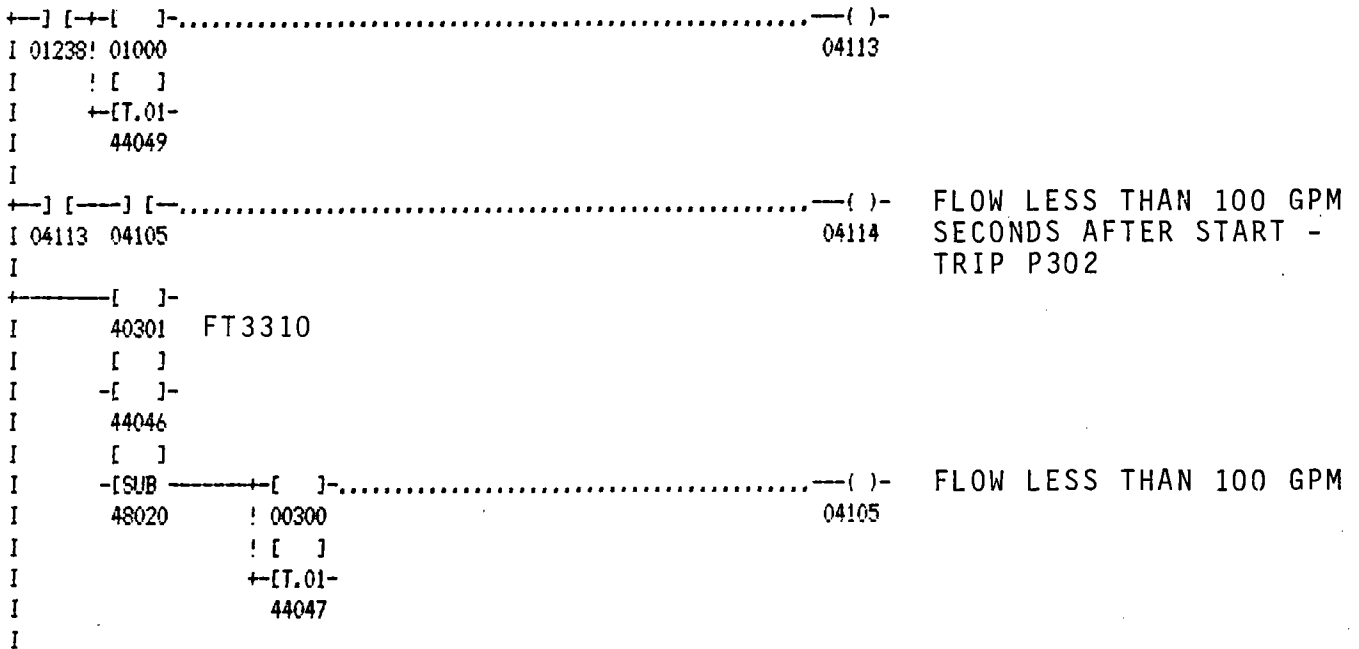
***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
MCDONNELL DOUGLAS	REV	F	SHEET 71

NETWORK: 00146 SEGMENT: 003 P 302 - CHARGING OIL PUMP



NETWORK: 00147 SEGMENT: 003 P 302 - CHARGING OIL PUMP



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MCDONNELL DOUGLAS

SIZE

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1D44789

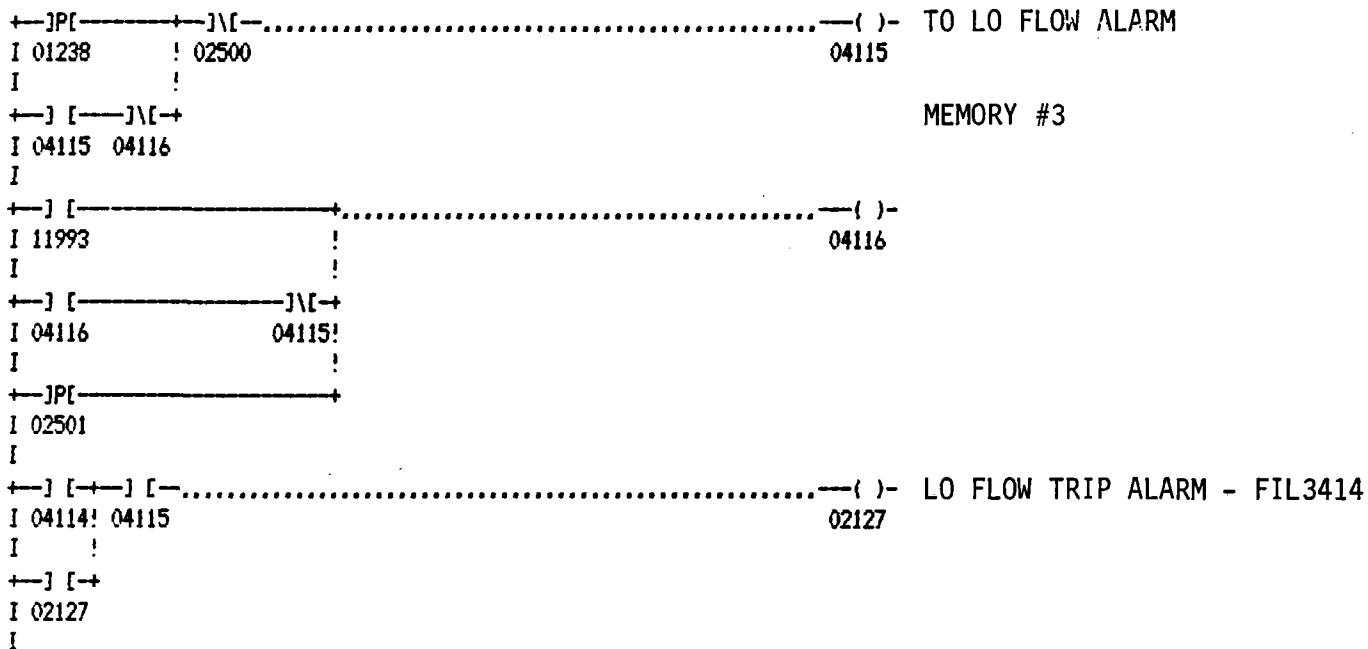
REV

G

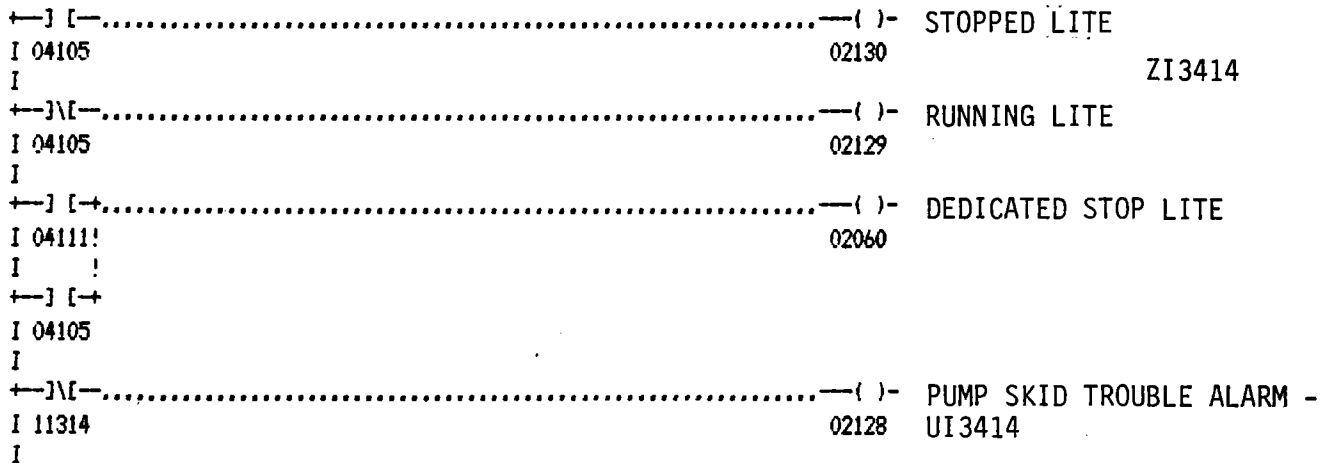
SHEET

72

NETWORK: 00148 SEGMENT: 003 P 302 - CHARGING OIL PUMP



NETWORK: 00149 SEGMENT: 003 P 302 - CHARGING OIL PUMP



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	REV D	SHEET 73	

NETWORK: 00150 SEGMENT: 003 P 302

+] [—] [+ — () - DEDICATED RUNNING LITE AND
 I 01238 04105! 02059 START SEQUENCE IN PROGRESS LITE
 I !
 +] \ [— — — — — +
 I 04105
 I

NETWORK: 00151 SEGMENT: 003 P 302

 * EMPTY NETWORK *

NETWORK: 00152 SEGMENT: 003 P 302

 * EMPTY NETWORK *

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SIZE

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REV

D

SHEET

74

NETWORK: 00153 SEGMENT: 003 P 303 - EXTRACTION OIL PUMP

```

+-JP[---] [-----] [ ]-
I 11994 02061      00000
I                [ ]
I                -[ ]-
I                00000 11315 = ZS 3903
I                [ ] 11994 = HS 3903 AUTO/MAN
I                -[SUB - 11995 = DED START
I                44055 11996 = DED STOP
I
+-JP[-----] [ ]-.....-( )- AUTO LITE
I 11994      00001      02061
I                [ ]
+-J\[-] \[-] \[-] [UCTR].....-( )- MAN LITE
I 02500 04132 44055      02062
I
  
```

NETWORK: 00154 SEGMENT: 003 P 303 - EXTRACTION OIL PUMP

```

+-] [---] \[-] [---] [---] [---].....-( )- KEYSTORKE HS3093A
I 10100 02131 02061 11315      00100
I
+-JP[---] [---] [---].....-( )- START COMMAND TO NET
I 00100 02061! 11315      04126 156
I
+-] [---] [---] [---] [---].....-( )- SET MEMORY #1
I 11995 02062      ! 00100      04162
I                ! [ ]
+-] [---] [---] [---] [---].....-( )- SET 100 TO "ON"
I 01240 04130      48137 [T.01- FOLLOWING AUTO SELECTION
I                AFTER MANUAL START -
+-] [---] \[-].....-( )- OUTPUT TO NET 100, 584
I 02061 04125      00125 #2
I
+-] \[-].....-( )- STOP TO NET 157
I 00100      04139
I
  
```

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18355

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1044789

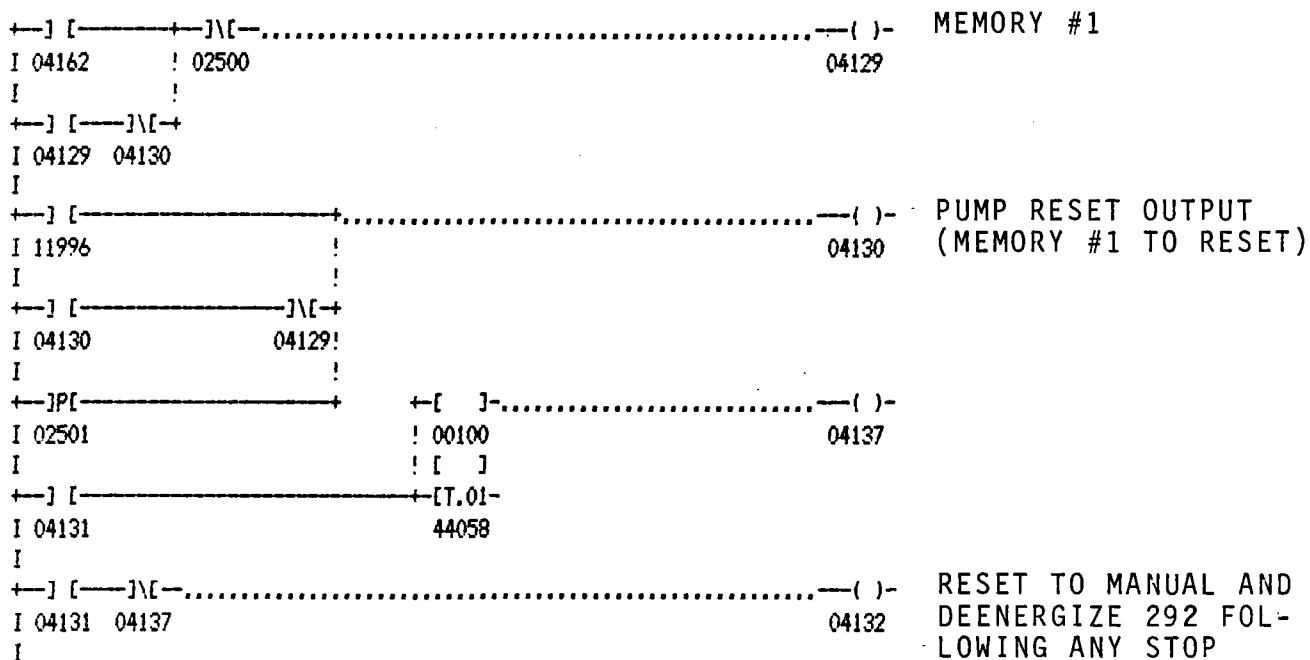
REV

G

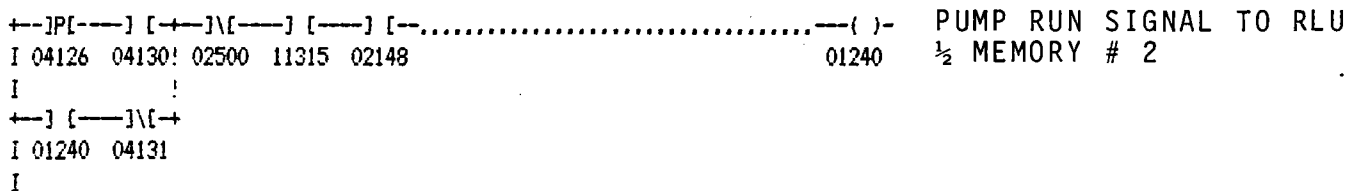
SHEET

75

NETWORK: 00155 SEGMENT: 003 P 303 - EXTRACTION OIL PUMP



NETWORK: 00156 SEGMENT: 003 P 303 - EXTRACTION OIL PUMP



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SIZE

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FSCM NO.

18355

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1044789

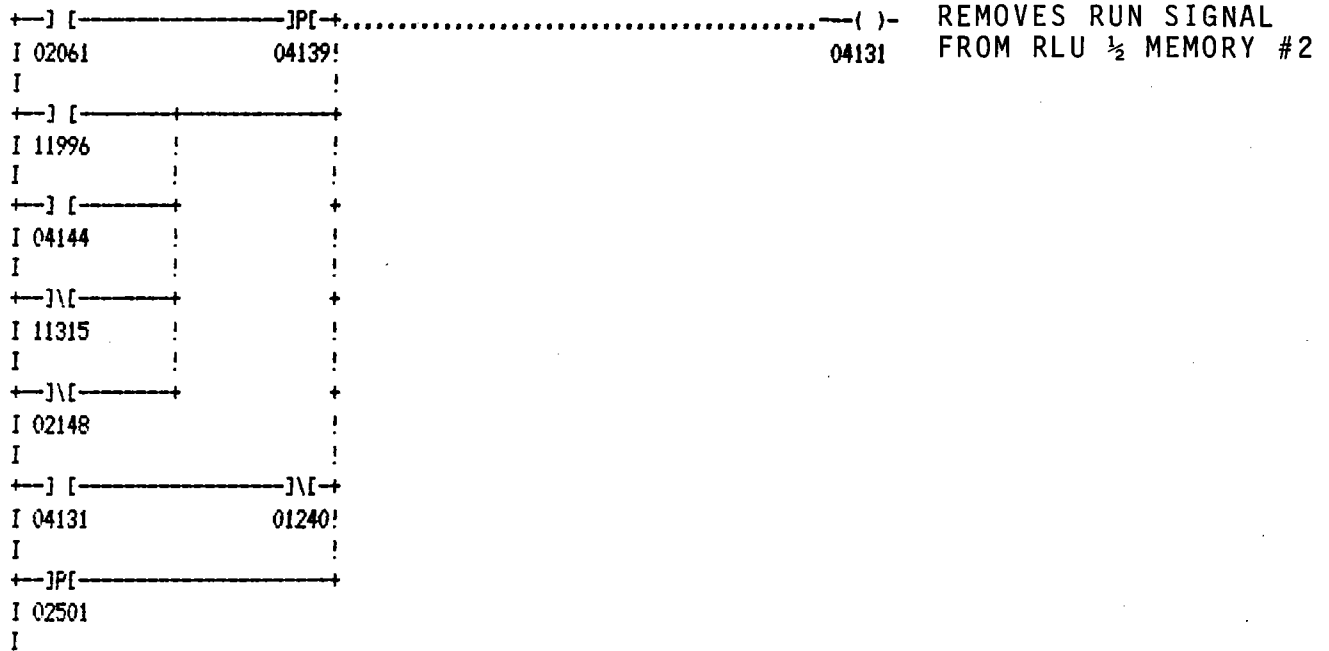
REV

G

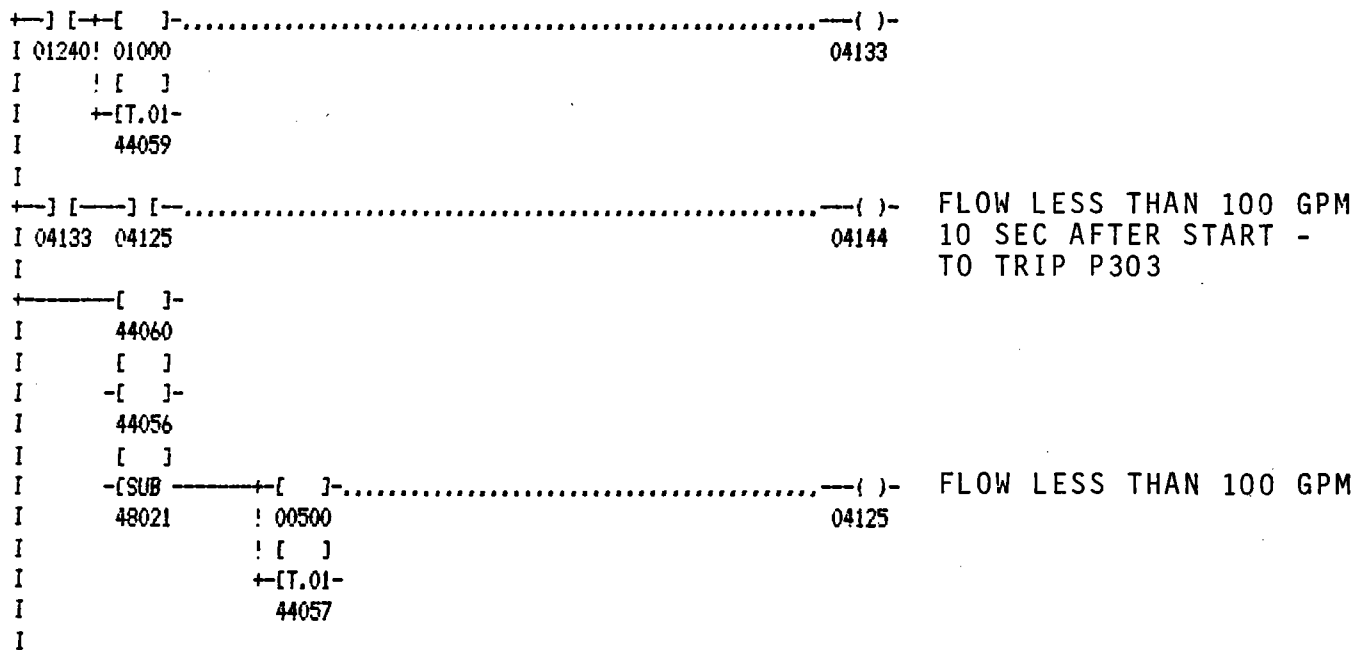
SHEET

76

NETWORK: 00157 SEGMENT: 003 P 303 - EXTRACTION OIL PUMP

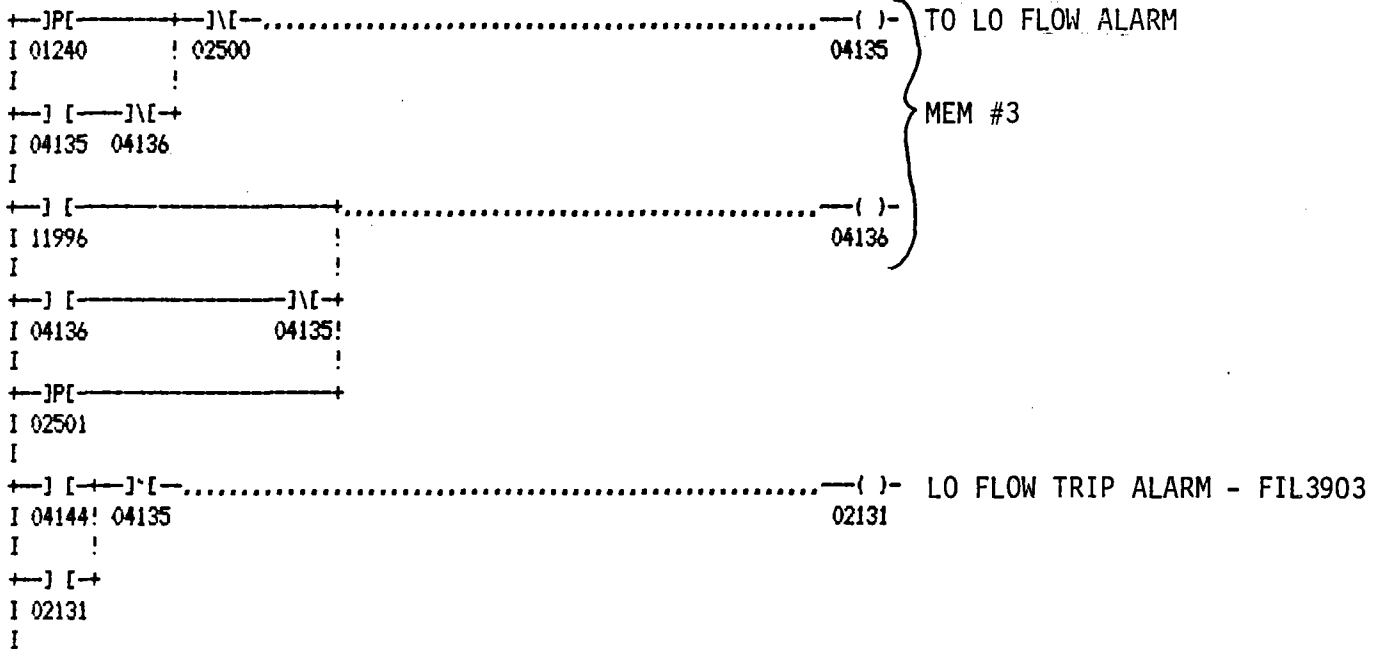


NETWORK: 00158 SEGMENT: 003 P 303 - EXTRACTION OIL PUMP

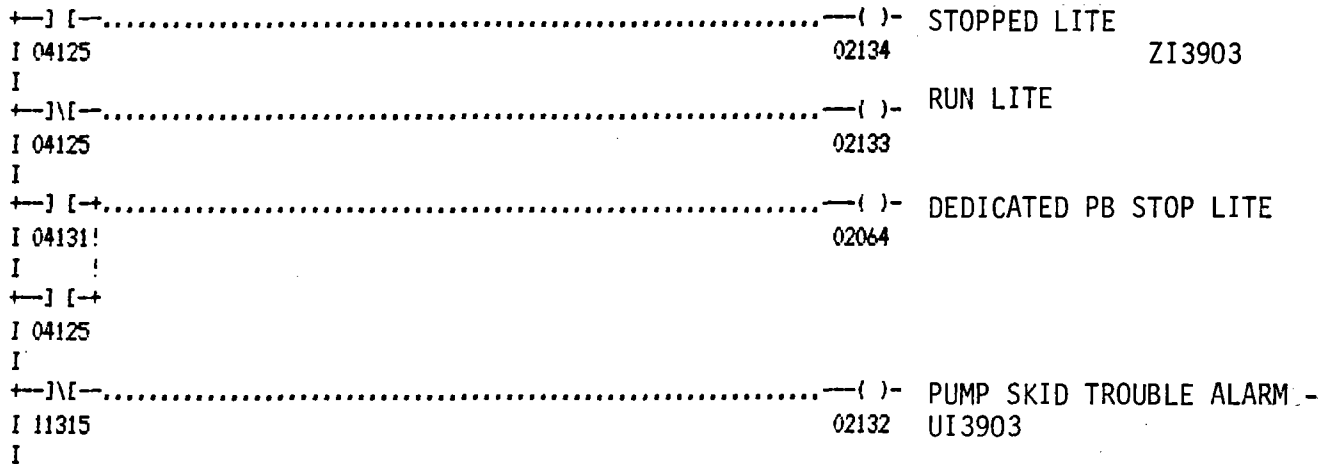


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NETWORK: 00159 SEGMENT: 003 P 303 - EXTRACTION OIL PUMP



NETWORK: 00160 SEGMENT: 003 P 303 - EXTRACTION OIL PUMP



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	REV D	SHEET 78	

NETWORK: 00165 SEGMENT: 004 P 304 - EXTRACTION OIL PUMP

```

+-]P[-----] [-----] [ ]-
I 11997 02065 00000
I [ ]
I -[ ]-
I 00000 11316 = ZS 3904
I [ ] 11997 = HS 3904 AUTO/MAN
I -(SUB - 11998 = DED START
I 44065 11999 = DED STOP
I
+-]P[-----] [ ]-.....-( )- AUTO LITE
I 11997 00001 02065
I [ ]
+-] \ [-----] \ [-----] [UCTR-.....-( )- MAN LITE
I 02500 04152 44065 02066
I
  
```

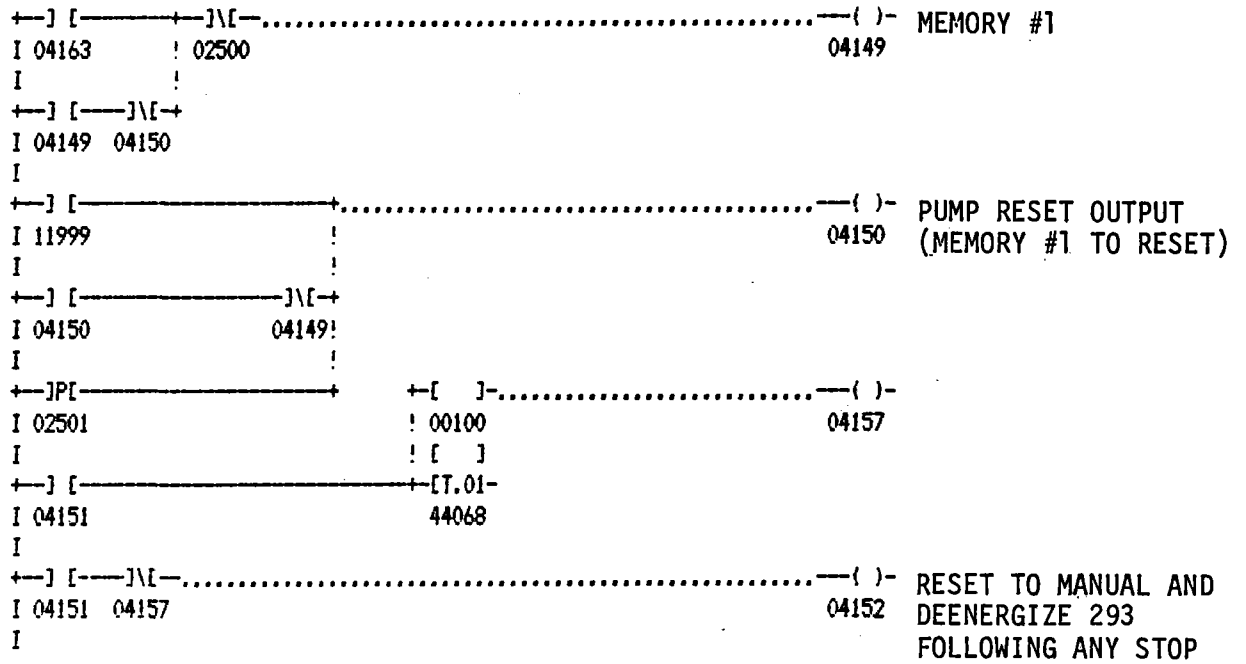
NETWORK: 00166 SEGMENT: 004 P 304 - EXTRACTION OIL PUMP

```

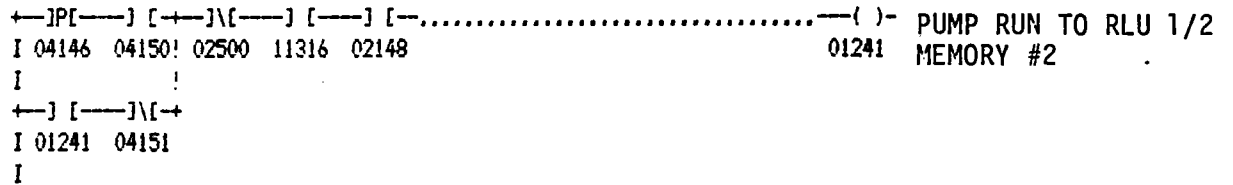
+-] [-----] \ [-----] [-----] [-----] [-----].....-( )- KEYSTORKE - HS3904A
I 10101 02135 02065 11316 00101
I
+-]P[-----] [-----] [-----] [-----].....-( )- START COMMAND TO NET
I 00101 02065! 11316 04146 168
I !
+-] [-----] [-----] [-----] [-----] [-----].....-( )- SET MEMORY #1
I 11998 02066 ! 00100 04163
I ! [ ]
+-] [-----] [-----] [-----] [-----] [-----].....-( )- SET 101 TO "ON" FOL-
I 01241 04150 48138 [T.01- LOWING AUTO SELECTION
I AFTER MANUAL START -
+-] [-----] \ [-----].....-( )- OUTPUT TO NET 101, 584
I 02065 04145 00124 #2
I
+-]N[-----].....-( )- STOP TO NET 169
I 00101 04159
I
  
```

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REV	G	SHEET 80


NETWORK: 00167 SEGMENT: 004 P 304 - EXTRACTION OIL PUMP



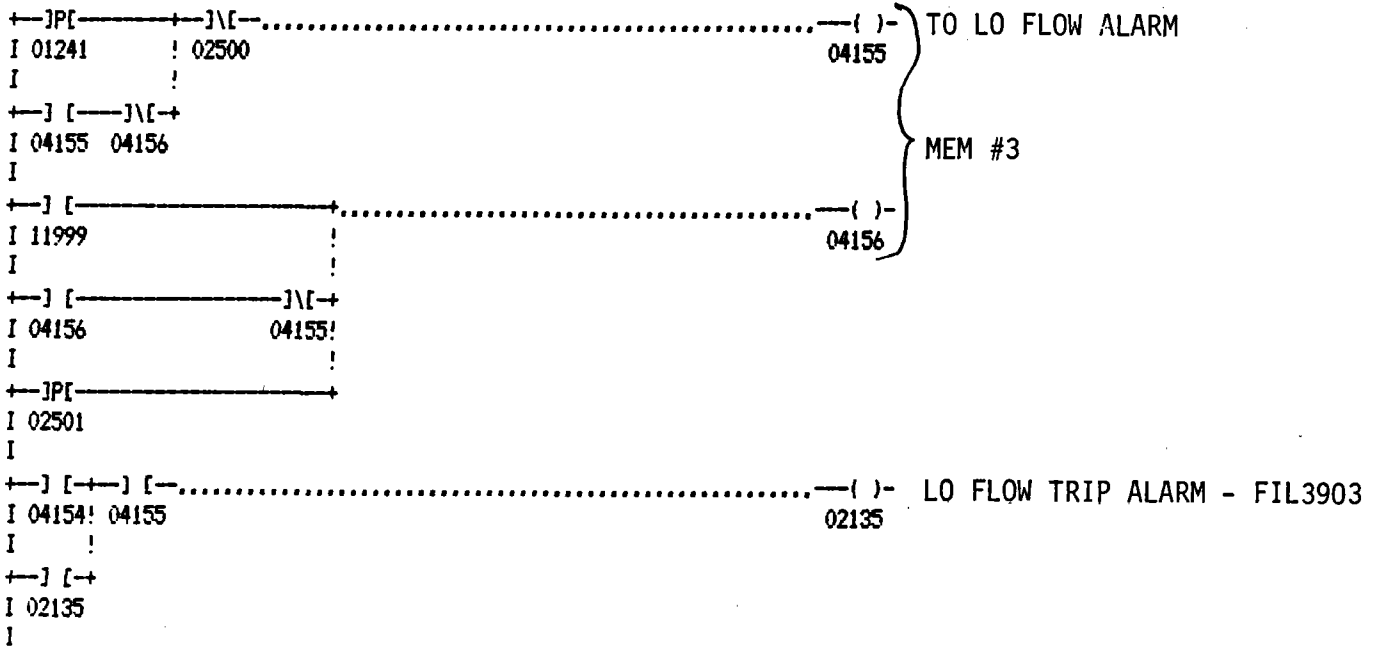
NETWORK: 00168 SEGMENT: 004 P 304 - EXTRACTION OIL PUMP



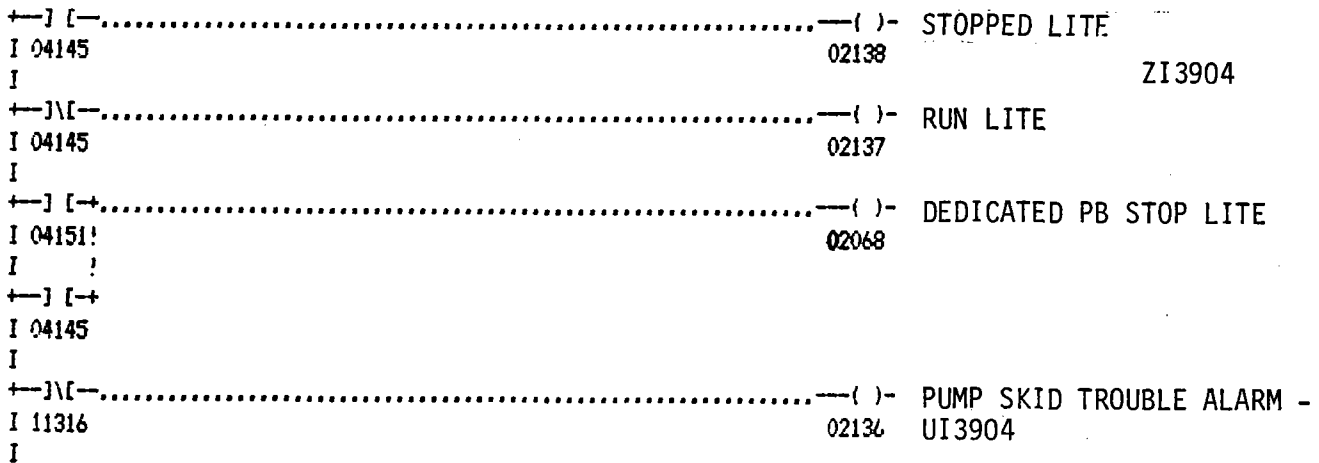
***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. 	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
REV	F	SHEET	81

NETWORK: 00171 SEGMENT: 004 P 304 - EXTRACTION OIL PUMP



NETWORK: 00172 SEGMENT: 004 P 304 - EXTRACTION OIL PUMP



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REV

D

SHEET

83

NETWORK: 00173 SEGMENT: 004 P 304 - EXTRACTION OIL PUMP

```

+ ] [---] [+.....( )- DEDICATED PB RUN LITE AND
I 01241 04145!          02067 START SEQUENCE IN PROGRESS
I      !
+ ] [---] [+
I 04145
I
  
```

NETWORK: 00174 SEGMENT: 004 P 304 - EXTRACTION OIL PUMP

```

+-----+
I  !      !      !      !      !
I  ! FT3812 !      ! FT3806 !      !
I  +-[ ]-  +-[ ]-  +-[ ]-  +-[ ]-  +-[ ]-
I  40207   44422   40208   44432   44425
I  [ ]     [ ]     [ ]     [ ]     [ ]
I  -[ ]-   -[ ]-   -[ ]-   -[ ]-   -[ ]-
I  44421   44424   44431   44434   44435
I  [ ]     [ ]     [ ]     [ ]     [ ]
I  -[MUL - -[DIV - -[MUL - -[DIV - -[ADD -
I  44422   44425   44432   44435   44070 -> TOTAL OIL FLOW
I
  
```

NOTE: TOTAL OIL FLOW = $\frac{3}{2}$ (FT3812) + $\frac{9}{10}$ (FT3806)
 (300) (500)
 (KLBH) (KLBH)

NETWORK: 00175 SEGMENT: 004 P 304

 * EMPTY NETWORK *

NETWORK: 00176 SEGMENT: 004 P 917 (RFP)

NOTES FOR P317 (NET 176 TO 196)

```

+JP[---] [-----] [ ]-
I 11921 01921      00000
I                [ ]
I                -[ ]-
I                00000
I                [ ]
I                -[SUB -
I                43030 11922 = HS 44 (DED START HS)
I                11923 = HS 44 (DED STOP HS)
I                11710 = ZS 1105
I                11921 = HS44 (DED AUTO/MAN HS)
+JP[-----] [ ]-.....-( )-
I 11921      00001      01921
I                [ ]
+J\ [---] J\ [---] [UCTR].....-( )-
I 02500 03052 43030      01922
I
+J [---] J\ [---].....-( )-
I 01921 11703      00064
I
  
```

11704 = ZS44E (52A CONTACT)
 11703 = ZS44F (52B CONTACT)
 11701 = PS 1105-3
 11702 = PS 1105-2
 11706 = PS 1105-1
 11708 = ZS 33C
 11709 = FS 1105-1
 11710 = ZS 1105
 11921 = HS44 (DED AUTO/MAN HS)

AUTO LITE
 MAN LITE
 OUTPUT TO 584 #2 NET 13

NETWORK: 00177 SEGMENT: 004 P 917

```

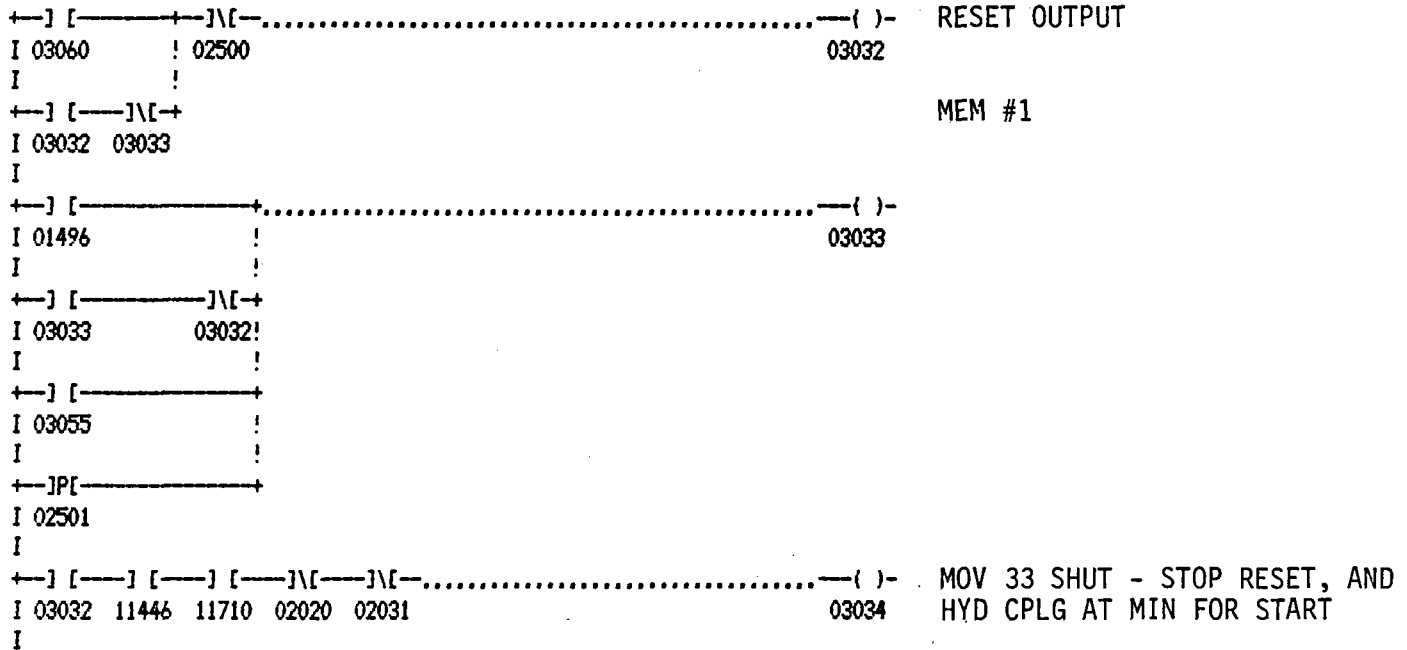
+J [---] J\ [---].....-( )-
I 11703! 03053      03052
I                !
I                +[ ]-.....-( )-
I                ! 00100      03053
I                ! [ ]
I                +[T.01-
I                43043
I
I
I
I
+J [---] J\ [---].....-( )-
I 11923! 03060      03059
I                !
+J [---] J\ [---].....-( )-
I 03059      ! 00300      03060
I                ! [ ]
+J [---] J\ [---].....-( )-
I 03059      43025
I
  
```

RESET AUTO/MAN TO MAN
 FOLLOWING A STOP
 3 SECOND DELAY TO RESET

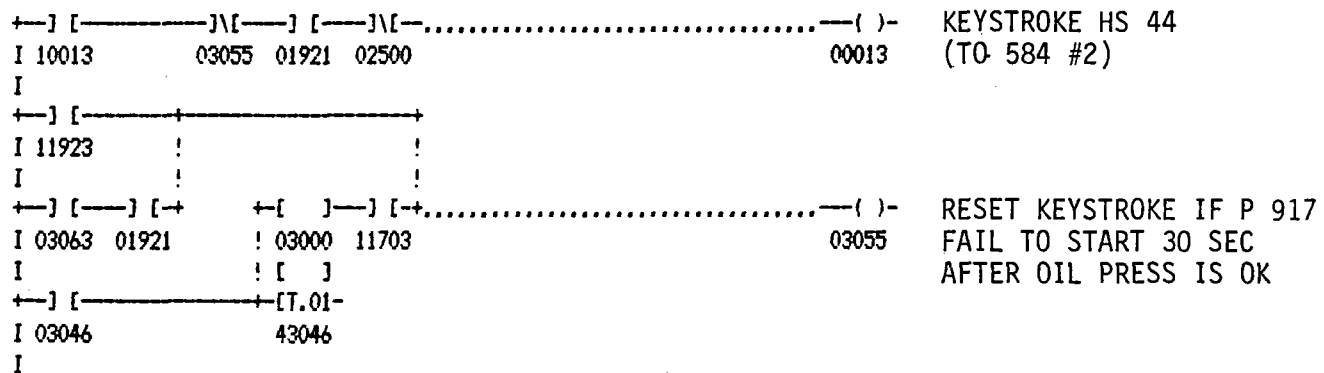
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NETWORK: 00178 SEGMENT: 004 P 917



NETWORK: 00179 SEGMENT: 004 P 917



MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

E

SHEET

86

NETWORK: 00180 SEGMENT: 004 P 917

```

+ ] [ + ] \ [ - ..... ( ) -
I 00013! 03051 03031
I !
I + [ ] - ..... ( ) -
I ! 00100 03051
I ! [ ]
I + [ T.01 -
I 43041
I
  
```

KS OUT TO START CIRCUIT
 (1 SECOND TO L.O. PUMP
 NETWORK #181)

```

+ ] \ [ + ] \ [ - ..... ( ) -
I 00013! 03064 03063
I !
I + [ ] - ..... ( ) -
I ! 00100 03064
I ! [ ]
I + [ T.01 -
I 43042
I
  
```

KS OUT TO STOP CIRCUIT
 (1 SECOND TO NET #185)

NETWORK: 00181 SEGMENT: 004 P 917 RUN SEQ

```

+ ] [ - ] [ + ] [ + ] \ [ - ..... ( ) -
I 01922 11922! 03034! 02500 03046
I ! !
+ ] [ - ] [ + +
I 01921 03031 !
I !
+ ] [ - ] \ [ - +
I 03046 03036
I
+ ] [ - + ..... ( ) -
I 03052 ! 03036
I !
+ ] [ - ] \ [ +
I 03036 03046!
I !
+ ] [ - +
I 03055 !
I !
+ ] P [ - ] [ - +
I 02501 11703
I
  
```

RUN SEQUENCE (START AUX L.O.)
 PUMP AND SEAL WATER)

MEM #2

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS



SIZE	FSCM NO.	DRAWING NO.
A	18355	1D44789
REV	F	SHEET
		87

NETWORK: 00182 SEGMENT: 004 P 917

```

+ ] [ + [ ] - ..... ( ) - LUBE OIL PRESSURE OK FOR
I 03037! 00500 03039 START (OUTPUT 5 SECONDS
I ! [ ] AFTER PS 1105-1 CLOSES AT
I + [T.01- 7 PSIG)
I 43032
I
+ ] [ - - - + ..... ( ) - L.O. PRESS ≥ 7 PSIG
I 11706 ! 03037
I !
+ ] [ - - ] \ [ + .....
I 03037 03038
I
+ ] \ [ - - - + ..... ( ) - L.O. PRESS ≤ 3 PSIG
I 11721 ! 03038
I !
+ ] [ - - ] \ [ + .....
I 03038 03037
I
  
```

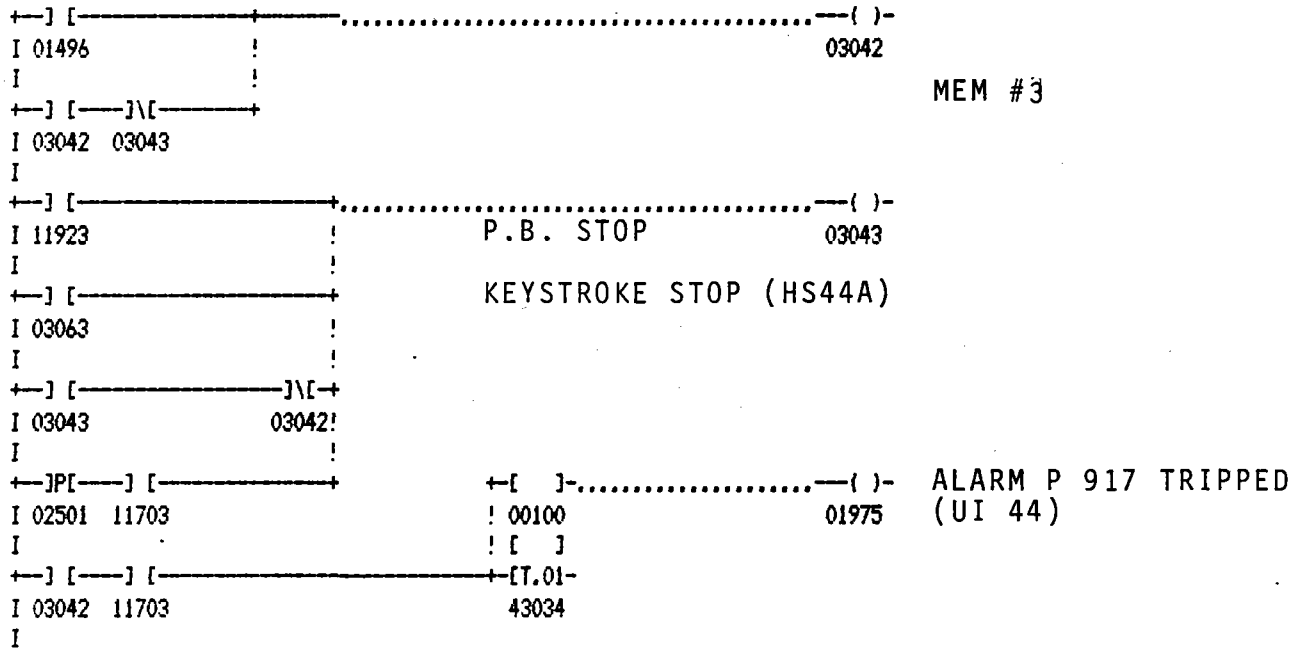
NETWORK: 00183 SEGMENT: 004 P 917

```

+ ] [ - - ] [ - - ] [ + ] \ [ - - ] \ [ - - - ..... ( ) - START P 917 (1 SECOND PULSE
I 03039 03034 03046! 03041 02500 01496 TO BKR A01-5)
I !
+ ] [ - - - - - + .....
I 01496
I
+ ] [ - - - - + [ ] - ..... ( ) - PULSE TIMER
I 01496 ! 00100 03041
I ! [ ]
I + [T.01-
I 43033
I
+ ] [ - ..... ( ) - BREAKER A01-5 CLOSED ZI44G
I 11704 02201
I
+ ] [ - ..... ( ) - TI1105K-SEAL WATER INBOARD
I 11709 02206
I
+ ] [ - ..... ( ) - TI1105L-SEAL WATER OUTBOARD
I 11713 02207
I
  
```

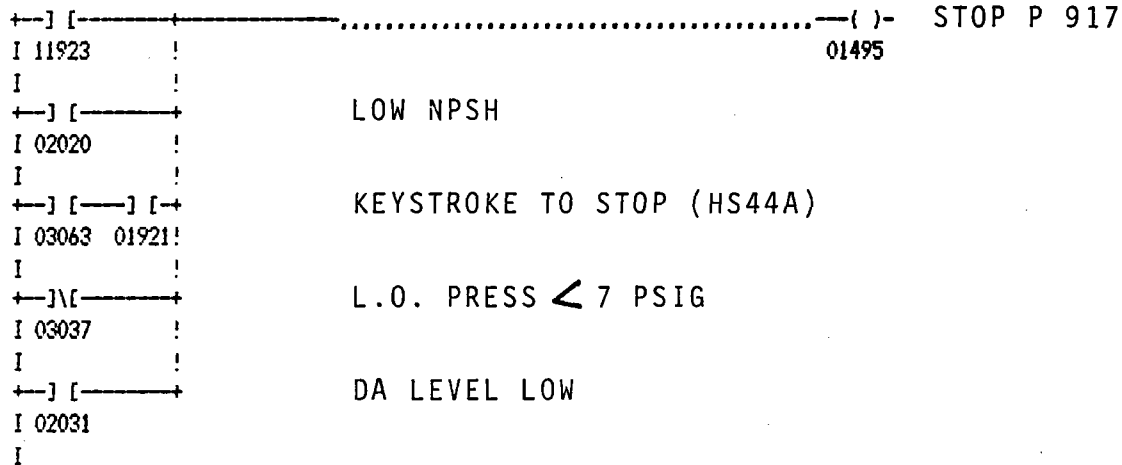
MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
MCDONNELL DOUGLAS	REV	SHEET	
	G	88	

NETWORK: 00184 SEGMENT: 004 P 917 TRIP ALARM



MEM #3

NETWORK: 00185 SEGMENT: 004 P 197



MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
	REV G	SHEET 89	

NETWORK: 00186 SEGMENT: 004 P 917

```

+ ] [ + ..... ( ) - SDPC RUNNING AND SEQUENCE IN
I 11704!          01973  PROGRESS LITE (RED)
I      !
+ ] [ +
I 03057
I
+ ] [ + ..... ( ) - SDPC RUNNING AND SEQUENCE
I 11704!          01923  IN PROGRESS LIST (RED)
I      !
+ ] [ +
I 03057
I
+ ] [ - ..... ( ) - SDPC STOPPED LITE
I 11703          01974
I
+ ] [ - ..... ( ) - DEDICATED STOPPED LITE
I 11703          01924
I
  
```

NETWORK: 00187 SEGMENT: 004 P 917 AUX OIL PUMP

```

+ ] [ - ..... ( ) - OIL PUMP OVERCURRENT TRIP
I 11709          02027  I1H1106
I PS1105-3
+ ] [ - ..... ( ) - ALARM P 917 LO OIL PRESSURE
I 11701 ! 11704 ZS44F 01976  PIL1105
I      !
+ ] [ - ] \ +
I 01976 03040
I PS1105-6
+ ] [ - ..... ( ) - OIL PUMP LOW OIL PRESSURE
I 11723 !          03040
I      !
+ ] [ - ] \ +
I 03040 01976
I
  
```

***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

90

NETWORK: 00188 SEGMENT: 004 MOV 33

```

+ ] [ - ] \ [ - ..... ( ) - KEYSTROKE - HS 33
I 10014 01422 00014
I
+ ] P [ + ] \ [ - ..... ( ) - OPEN COMMAND
I 00014! 03047 01421
I !
+ ] [ + ] [ ] - ..... ( ) - PULSE TIMER
I 01421 ! 00100 03047
I ! [ ]
I + [ T . 01 - + ] N [ + ] \ [ - ..... ( ) - CLOSE COMMAND
I 43038 ! 00014! 03048 02500 01422
I !
I + ] P [ +
I ! 11703!
I !
I + ] [ + ] [ ] - ..... ( ) - PULSE TIMER
I 01422 ! 00100 03048
I ! [ ]
I + [ T . 01 -
I 43039
I
  
```

NETWORK: 00189 SEGMENT: 004 MOV 33/RECEIVER VALVE

```

+ ] \ [ - ..... ( ) - CLOSE LITE
I 11445 ZS33A 01978 ZI33
I
+ ] \ [ - ..... ( ) - OPEN LITE
I 11446 ZS33B 01977
I
+ ] [ - ..... ( ) - RECIRC VALVE CLOSED
I 11715 ZS37A 02022
I
+ ] [ - ..... ( ) - RECIRC VALVE OPEN
I 11714 ZS37B 02021
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

G

SHEET

91

NETWORK: 00190 SEGMENT: 004 P 917

```

+---] \ / [-----] ( )- DEENERGIZE TO START
I 03065 01665 AUX OIL PUMP
I
+---] [-----] ( )-
I 11702 ! 03049
I !
+---] [-----] \ / [-----]
I 03049 03050
I PS 1105-2
+---] [-----] ( )-
I 11722 ! 03050
I PS 1105-5
+---] [-----] \ / [-----]
I 03050 03049
I
  
```

NETWORK: 00191 SEGMENT: 004 P 917

```

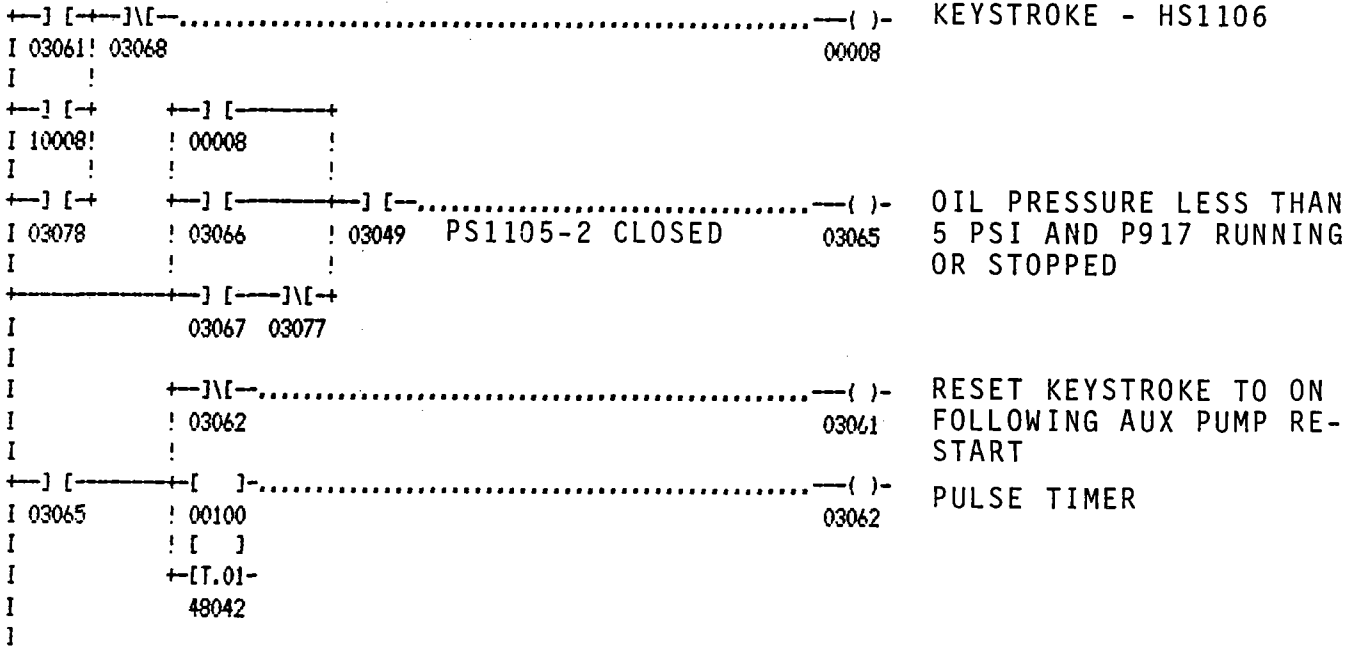
+---] \ / [-----] [-----] ( )- HYDRAULIC COUPLING NOT
I 11710 11703 01980 AT MIN SPEED
I - Z11105.
+-----[ ]-
I 40404 LIT83
I [ ]
I -[ ]+-----[ ]- ( )- LO DA LEV -
I 43050! ! 00800 02031 LIL83A
I [ ]! ! [ ]
I -[SUB + +[T.01-
I 43070 43071
I
+---] [-----] \ / [-----] ( )- DA LO LEVEL ALARM
I 02031 11703! 11923 02032 LIL44
I !
+---] [-----]
I 02032
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

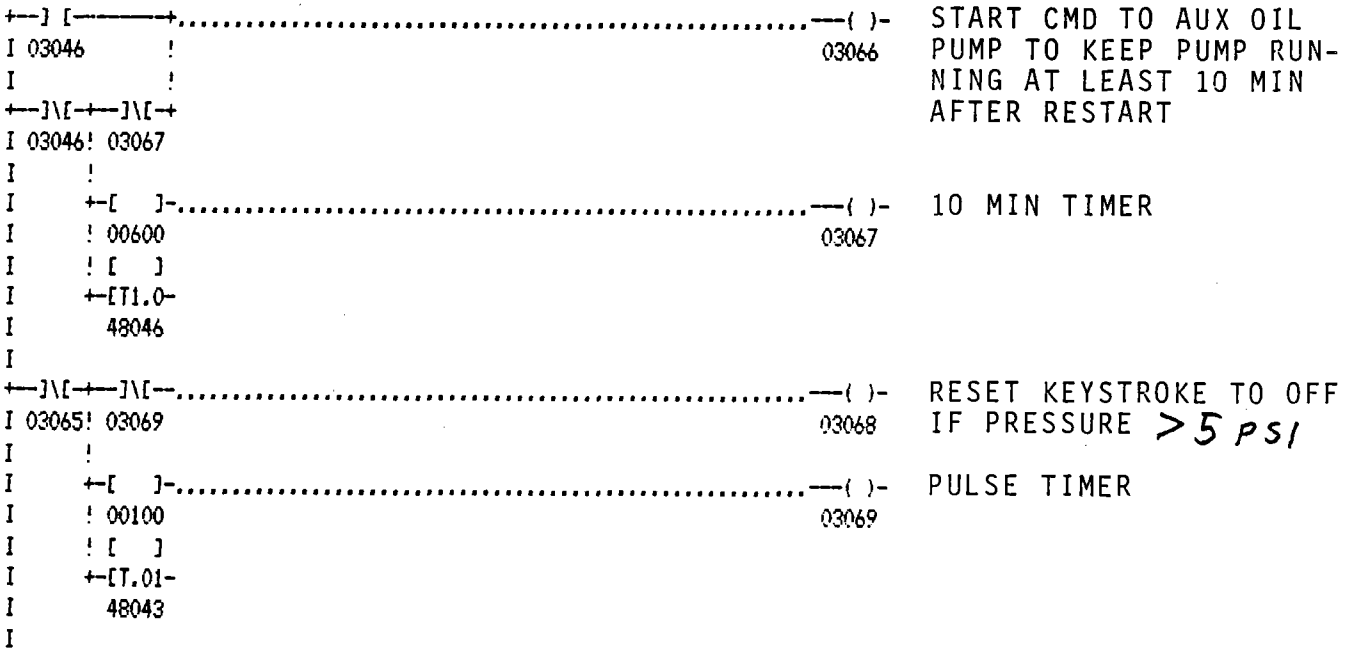
MCDONNELL DOUGLAS

SIZE	FSCM NO.	DRAWING NO.
A	18355	ID44789
REV	G	SHEET 92

NETWORK: 00194 SEGMENT: 004 P 917 - AUX OIL PUMP LOGIC



NETWORK: 00195 SEGMENT: 004 P917



MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
	MCDONNELL DOUGLAS	REV G	SHEET 94

NETWORK: 00196 SEGMENT: 004 P 917

```

+---]NI-----+
I 00008      !
I
+---]NI-----] [---]NI-----] ( )- PULSE RESET
I 03077 03076! 03078      03076
I
I      +---]NI-----] ( )- RESET KEYSTROKE TO ON
I      ! 00300      03078 IF OPERATOR TRY'S TO
I      ! [ ] TURN AUX OIL PUMP OFF
I      +---]T.01- BEFORE 10 MIN
I      48044
I
+---] [---]NI-----] ( )- 10 MIN TIMER STARTED BY
I 11703      ! 00600      03077 P917 STOP
I      ! [ ]
I      +---]T1.0-
I      48045
I
+---] [---]NI-----] ( )- RESET KEYSTROKE TO ON
I 00008      00058 IF AUX OIL PUMP AUTO
I      STARTS
  
```

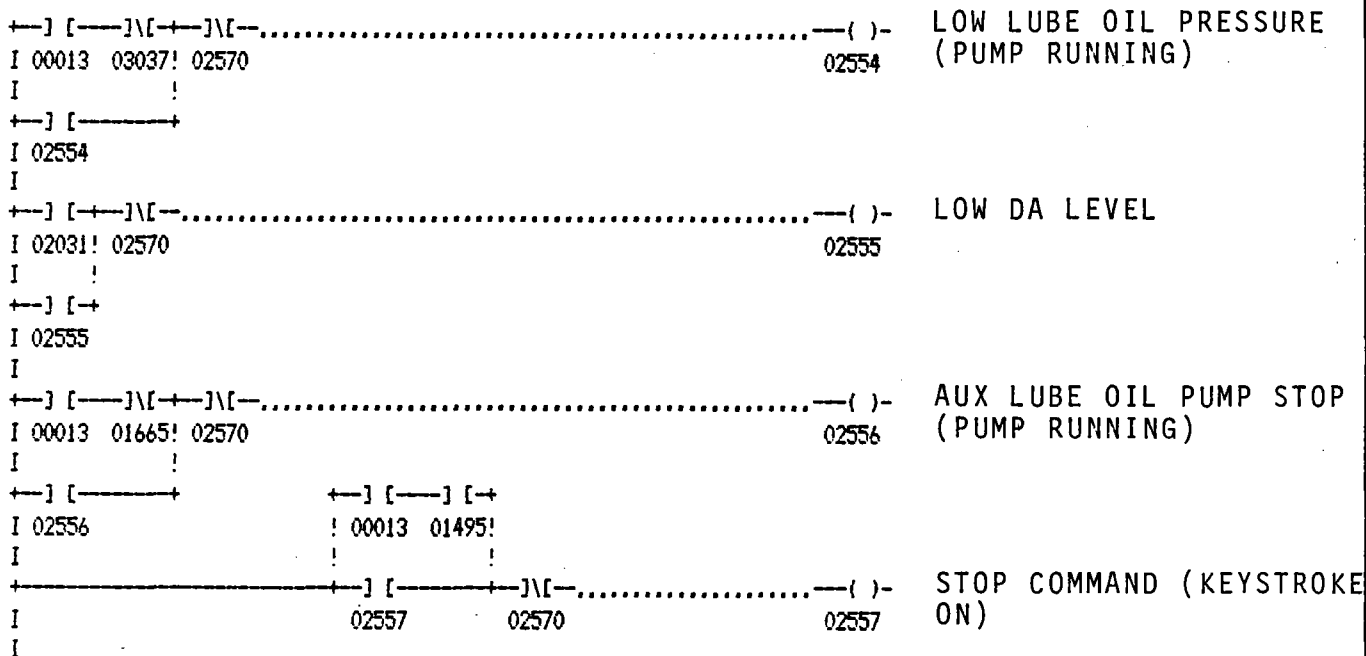
NETWORK: 00197 SEGMENT: 004 P 917 TRIP STATUS

```

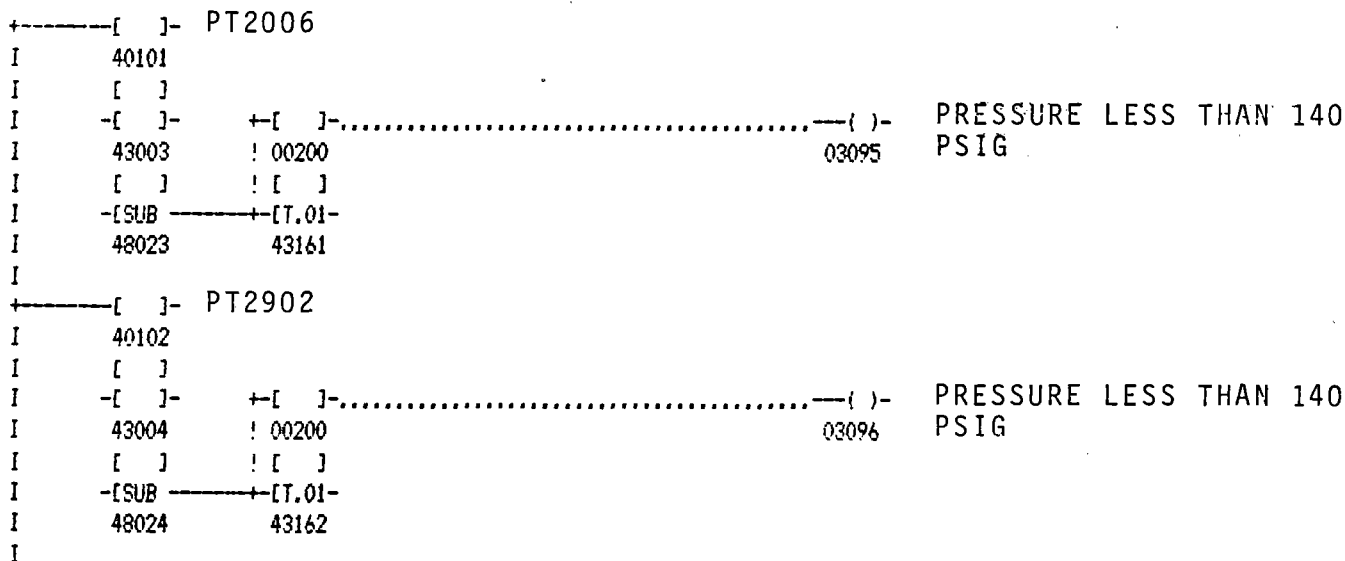
+---] [---]NI-----] ( )- P.B. STOP (HS44B)
I 11923! 02570      02551
I
+---] [---]NI-----] ( )- NPSH TRIP
I 02551      ! 02020! 02552
I
+---] [---]NI-----] ( )- RESET WHEN PUMP STARTS
I 11704! 02571      02570
I
I      +---]NI-----] ( )- PULSE TIMER
I      ! 00100      02571
I      ! [ ]
I      +---]T.01-      +---] [---]NI-----] ( )- AUTO - KEYSTROKE STOP
I      43051      ! 03063 01921! 02570 (HS44A)
I
+---] [---]NI-----] ( )-
I      02553
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
MCDONNELL DOUGLAS	REV	G	SHEET
			95

NETWORK: 00198 SEGMENT: 004 P 917



NETWORK: 00199 SEGMENT: 004 RECEIVER DRAIN VALVES



MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

96

NETWORK: 00200 SEGMENT: 004 RCVR DRAIN VALVES

←] [---] [---] [---] [---] \ [---]	—()-	KEYSTROKE HS2913
I 10022 01927 03095 03096 02500	00022	
I		
←] [---] [---] [---] \ [---]	—()-	ENERGIZE TO OPEN DRAIN VALVES
I 00022 03095 03096	01046	
I		
←] [---] [---] [---] \ [---]	—()-	<i>Dedicated Disable Lite</i>
I 11060	01928	
I		
←] [---] [---] [---] \ [---]	—()-	<i>Dedicated Enable Lite</i>
I 11059	01927	
I		

NETWORK: 00201 SEGMENT: 004 RS RLU BIT STATUS

←] [---] \ [---]	—()-	ENERGIZE FOR RLU READY QI6211
I 11076 03044	02014	
I		
←] [---] \ [---]	—()-	RS RLU TRIP - QI6210
I 11079	02013	
I		
←] [---] \ [---]	—()-	RS RLU ALARMS QI6209
I 11080	02012	
I		
←] [---] \ [---]	—()-	BIT 8 QI6208
I 11081	02011	
I		
←] [---] \ [---]	—()-	BIT 7 QI6207
I 11082	02010	
I		
←] [---] \ [---]	—()-	BIT 6 QI6206
I 11083	02009	
I		
←] [---] \ [---]	—()-	BIT 5 QI6205
I 11084	02008	
I		

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
REV	G	SHEET	97

NETWORK: 00202 SEGMENT: 004 RS RLU BIT STATUS

```

+ ] [ ..... ( )- BIT 4 QI6204
I 11085 02007
I
+ ] [ ..... ( )- BIT 3 QI6203
I 11086 02006
I
+ ] [ ..... ( )- BIT 2 QI6202
I 11087 02005
I
+ ] [ ..... ( )- BIT 1 QI6201
I 11088 02004
I
+ ] [ ..... ( )- RLU TROUBLE LOCKUP
I 02014 01039! 03044 (QI6211)
I !
+ ] [ ..... J [ +
I 03044 01039 RS RLU RESET
I
  
```

NETWORK: 00203 SEGMENT: 004 RS RLU BIT STATUS

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
	REV	G	SHEET
			97.1

NETWORK: 00204 SEGMENT: 004 RS RLU RESET

```

+ ] [---] \ [---] \ [---] ..... ( )- RESET KEYSTROKE HS6200B
I 10023 04400 02500 00023
I
+ ] [---] \ [---] ..... ( )- RS RLU RESET PULSE
I 00023 02500 01039
I
+ ] [ + [ ] - ..... ( )- PULSE TIMER
I 01039! 00100 04400
I ! [ ]
I + [T.01-
I 43400
I
+ ] [ + ] \ [---] ..... ( )- RS DEDICATED P.B.
I 11945! 01039 02029 TRIP-QI6001
I !
+ ] [ +
I 02029
I
  
```

NETWORK: 00205 SEGMENT: 004 RS TRIP STATUS - OCS CONSOLE

```

+ ] [---] ..... ( )- RS READY (OCS CONSOLE)
I 11076 02081
I
+ ] [-----] +
I 04421 !
I !
+ ] [ + ] \ [ + ] \ [ + ] ..... ( )- RS TRIP (OCS CONSOLE)
I 11079! 02082! 04422 02082
I ! !
I + + [ ] - ..... ( )- FLASHER
I ! ! 00100 04422
I ! ! [ ]
I + + [T.01-
I ! 48128
I !
I + + [ ] - ..... ( )- 15 SECOND TIMER
I ! 01500 04421
I ! [ ]
I + [T.01-
I 48129
I
  
```

***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
	MCDONNELL DOUGLAS	REV F	SHEET 98


NETWORK: 00206 SEGMENT: 004 TS CHARGE RESET

```

+-] [---] \ [---] \ [---] ..... ( )- KEYSTROKE - HS6310B
I 10103 04405 02500 00103
I
+-] [---] \ [---] ..... ( )- RESET COMMAND
I 00103 02500 01229
I
+-] [+-[ ]- ..... ( )- PULSE TIMER
I 01229! 00300 04405
I ! [ ]
I +[T.01-
I 44400
I
+-] [+-] \ [---] ..... ( )- TS DEDICATED P.B. TRIP
I 12009! 01229 02157 CHARGE QI6004
I !
+-] [+
I 02157
I
  
```

NETWORK: 00207 SEGMENT: 004

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS 	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
REV	G	SHEET	99

NETWORK: 00208 SEGMENT: 004 TSS EXTRACTION

```

+-] [---] \ [---] \ [---] ..... ---( )- KEYSTROKE HS6302B
I 10104 04410 02500 00104
I
+-] [---] \ [---] ..... ---( )- RESET COMMAND
I 00104 02500 01230
I
+-] [---] \ [---] ..... ---( )- PULSE TIMER
I 01230! 00300 04410
I ! [ ]
I +-[T.01-
I 43410
I
+-] [---] \ [---] ..... ---( )- TS DEDICATED PUSH
I 12010! 01230 02158 BUTTON TRIP EXTRACTION
I ! QI6005
+-] [---] \ [---] ..... ---( )-
I 02158
I
  
```

NETWORK: 00209 SEGMENT: 004

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV G	SHEET 100	

NETWORK: 00210 SEGMENT: 004 TSS RLU BIT STATUS

```

+ ] [ - ..... - ( ) - ENERGIZE FOR CHG. READY
I 11220                                02149  QI6322
I
+ ] [ - ..... - ( ) - ENERGIZE FOR EXT. READY
I 11219                                02148  QI6321
I
+ ] [ - ..... - ( ) - TSS RLU ALARM - QI6319
I 11224                                02147
I
+ ] [ - ..... - ( ) - BIT 8 QI6318
I 11225                                02146
I
+ ] [ - ..... - ( ) - BIT 7 QI6317
I 11226                                02145
I
+ ] [ - ..... - ( ) - BIT 6 QI6316
I 11227                                02144
I
+ ] [ - ..... - ( ) - BIT 5 QI6315
I 11228                                02143
I
  
```

NETWORK: 00211 SEGMENT: 004 TSS RLU BIT STATUS

```

+ ] [ - ..... - ( ) - BIT 4 QI6314
I 11229                                02142
I
+ ] [ - ..... - ( ) - BIT 3 QI6313
I 11230                                02141
I
+ ] [ - ..... - ( ) - BIT @ QI6312
I 11231                                02140
I
+ ] [ - ..... - ( ) - BIT 1 QI6311
I 11232                                02139
I
+ ] [ - ..... - ( ) - TSS EXT. & CHG. TRIPPED
I 02148 02149                            04415
I
+ ] [ - ..... - ( ) - TS RLU TRIPPED QI6320
I 11223                                02159
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
MCDONNELL DOUGLAS	REV	G	SHEET
			101

NETWORK: 00212 SEGMENT: 004

 * EMPTY NETWORK *

NETWORK: 00213 SEGMENT: 005 SPARE

 * EMPTY NETWORK *

NETWORK: 00214 SEGMENT: 005 LV 3116

<pre> +] \ / ---] \ / + [] - () - I 11201 11202! 00100 04001 I ! [] I + [T.01 - I 44002 I +] \ / ---] \ / - () - I 04001 00105 01250 I +] [- () - I 04001 02105 I +] [- () - I 11202 02153 I +] [- () - I 11201 02154 I +] [-] \ / - () - I 10105 02500 00105 I </pre>	<p>LEVEL HI</p> <p>ENERGIZE SOV 3116 (CLOSE LV3116)</p> <p>LV3116 ALARM</p> <p>SDPC OPEN LITE</p> <p>SDPC CLOSE LITE</p> <p>KEYSTROKE HS3116</p>
--	--

NETWORK: 00215 SEGMENT: 005 LV 3116

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

102

NETWORK: 00216 SEGMENT: 005 SPARE

* EMPTY NETWORK *

NETWORK: 00217 SEGMENT: 005 SPARE

* EMPTY NETWORK *

NETWORK: 00218 SEGMENT: 005 SPARE

* EMPTY NETWORK *

NETWORK: 00219 SEGMENT: 005 SPARE

* EMPTY NETWORK *

NETWORK: 00220 SEGMENT: 005 SPARE

* EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

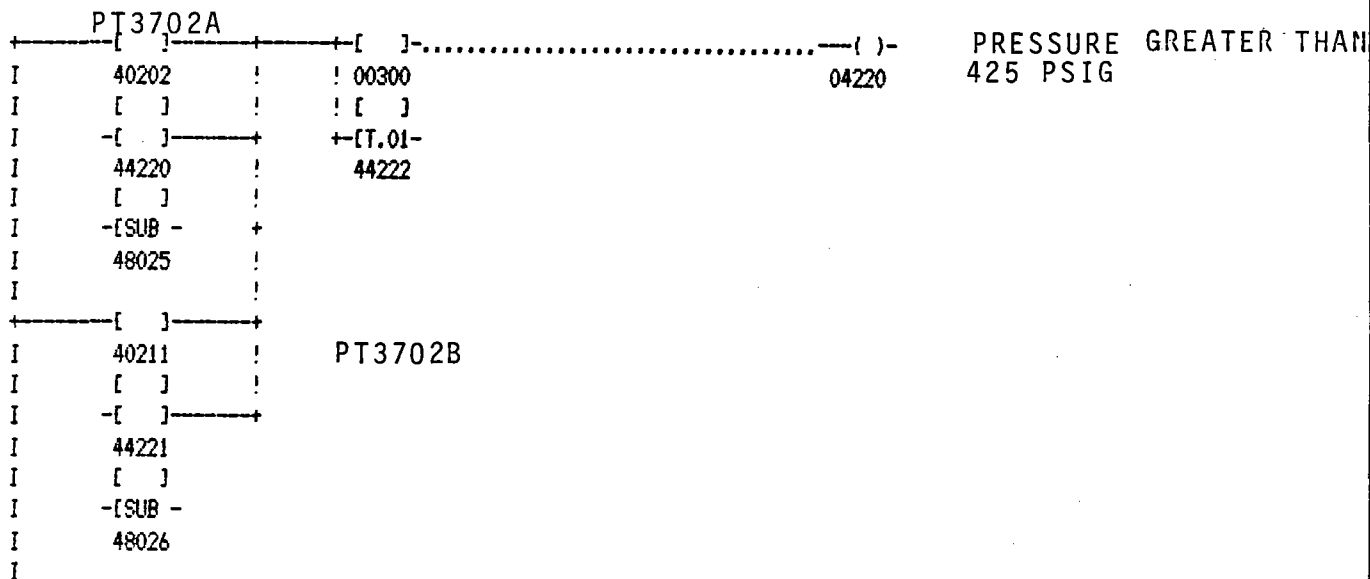
REV

G

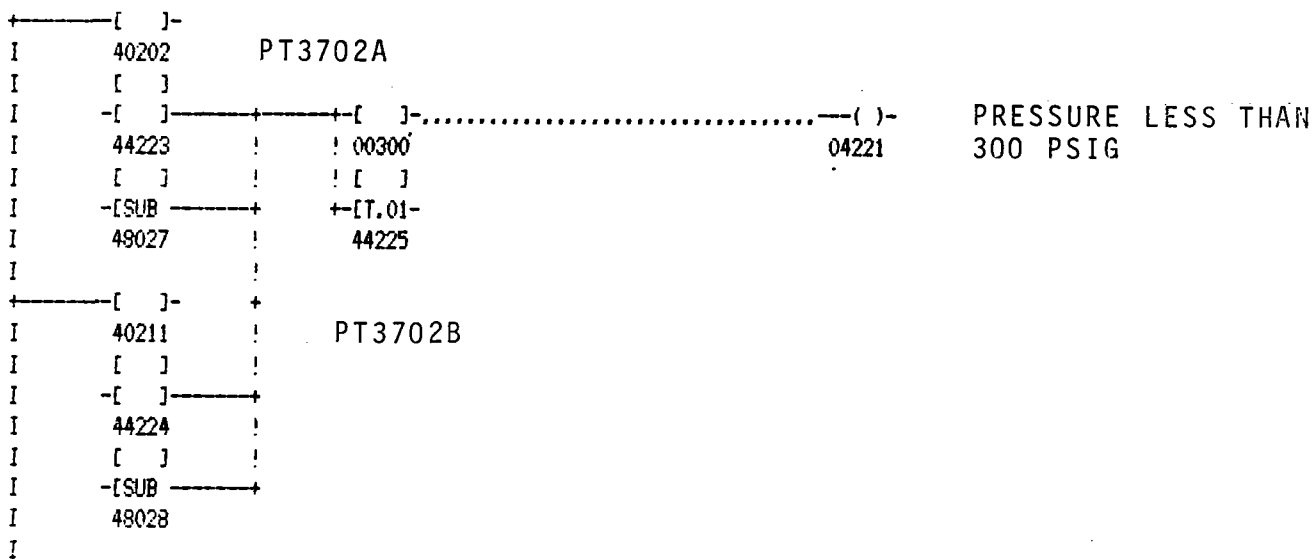
SHEET

103

NETWORK: 00221 SEGMENT: 005 AOV 3117



NETWORK: 00222 SEGMENT: 005 AOV 3117



***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
	MCDONNELL DOUGLAS	REV G	SHEET 104

NETWORK: 00223 SEGMENT: 005 *AOV 3117*

```

+ ] [ + ] \ [ - ..... ( ) - 1 SECOND PULSE FROM
I 00106! 04227 ..... 04226 KEYSTROKE OPEN COMMAND
I !
I + [ ] - ..... ( ) - PULSE TIME
I ! 00100 ..... 04227
I ! [ ]
I + [ T.01 -
I 44226
I

+ ] \ [ + ] \ [ - ..... ( ) - 1 SECOND PULSE FROM
I 00106! 04229 ..... 04228 KEYSTROKE CLOSE
I ! ..... COMMAND
I + [ ] - ..... ( ) - PULSE TIMER
I ! 00100 ..... 04229
I ! [ ]
I + [ T.01 -
I 44227
I
  
```

NETWORK: 00224 SEGMENT: 005 *AOV 3117*

```

+ ] [ - + ] \ [ - ..... ( ) - OUTPUT FROM KEYSTROKE
I 04226 ! 02500 ..... 04230 OPEN COMMAND
I !

+ ] [ - + ] \ [ - +
I 04230 04231
I

+ ] [ - + ] \ [ - ..... ( ) - MEM #1
I 04228 ..... 04231
I !

+ ] [ - + ] \ [ - +
I 04231 ..... 04230!
I !

+ ] \ [ - + ] \ [ - +
I 02501
I

+ ] [ + ] \ [ - ..... ( ) - KEYSTROKE COIL HS3117
I 10106! 04238 02500 ..... 00106
I !
+ ] [ - +
I 04232
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1044789
REV G	SHEET 105	

NETWORK: 00225 SEGMENT: 005 *AOV 3117*

```

+ ] [ + ] \ [ - ..... ( ) - ENERGIZE TO OPEN AOV
I 04230! 02500 04243 3117-OUTPUT TO TSS
I ! ! EXT RLU
+ ] [ +
I 04234
I
+ ] \ [ + ] \ [ - ..... ( ) - 1 SECOND PULSE TO
I 04243! 04239 04238 RESET KEYSTROKE
I ! !
I + [ ] ..... ( ) - PULST TIMER
I ! 00100 04239
I ! [ ]
I + [ T.01-
I 44228
I
+ ] [ - ] [ - ..... ( ) - ALARM AOV3117 OPEN DUE
I 04220 11211 02097 TO HIGH STEAM PRESSURE
I (PIH3117)
+ ] [ - ] [ - ..... ( ) - ALARM AOV3117 OPEN
I 04236 11212 02098 BECAUSE AOV3717 CLOSED
I (UI 3117)
  
```

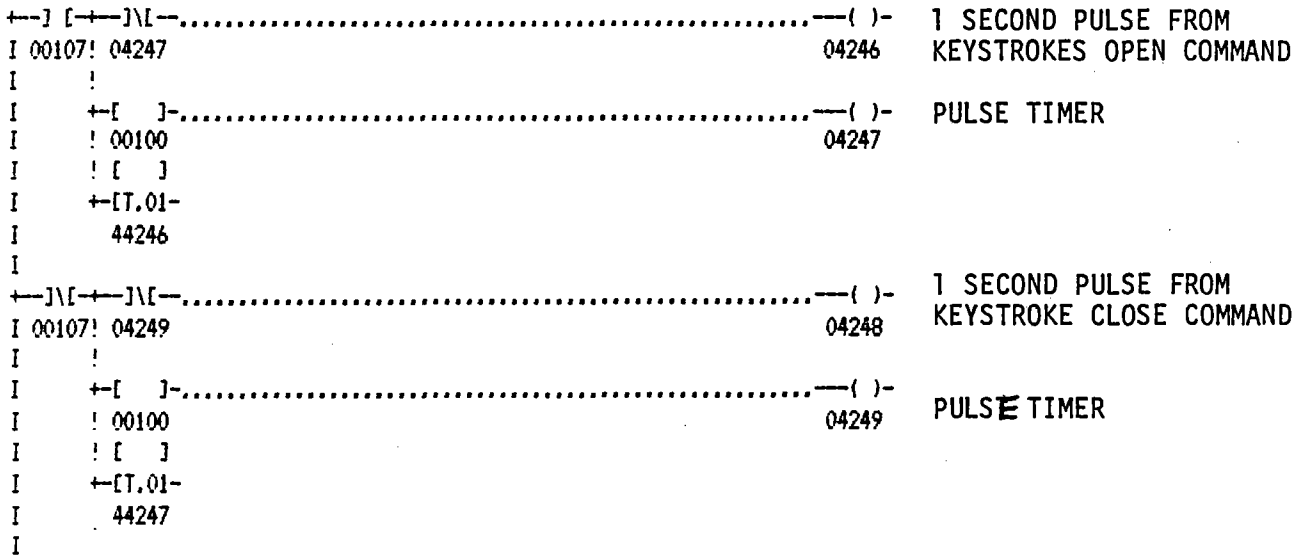
NETWORK: 00226 SEGMENT: 005 *AOV 3117*

```

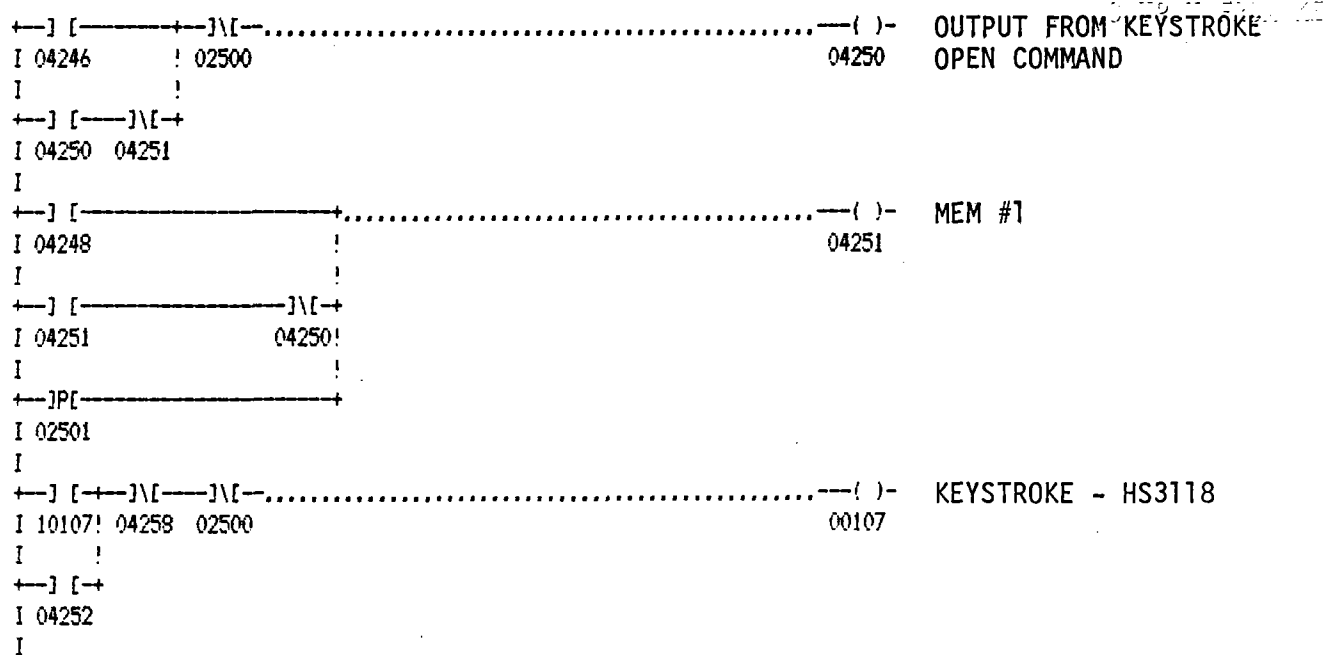
+ ] [ + ] \ [ - ..... ( ) - 1/2 MEM #2
I 04220! ! 02500 04234
I ! !
+ ] [ + + + ] \ [ - ..... ( ) - 4 SECOND PULSE FROM
I 04232 ! ! 04233 04232 AOV3717 CLOSE COMMAND
I ! ! (SEE NETS 113 AND 224)
+ ] [ - ] \ [ + + [ ] ..... ( ) - PULSE TIMER
I 04234 04235 ! 00400 04233
I ! [ ]
+ ] [ - ] [ + ] \ [ + ] \ [ T.01-
I 04222 02148! 44229
I !
+ ] [ - ] + [ ] ..... ( ) - TSSG Not Ready
I 04244 ! 00100 04244
I ! [ ]
+ ] \ [ - ] \ [ + ] \ [ T.01-
I 02148 48065
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
	REV G	SHEET 106	

NETWORK: 00233 SEGMENT: 005 *AOV 3118*



NETWORK: 00234 SEGMENT: 005 *AOV 3118*



MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
MCDONNELL DOUGLAS	REV	G	SHEET 110

NETWORK: 00235 SEGMENT: 005 *AOV 3118*

```

+ ] [ + ] \ [ - ..... ( )-
I 04250! 02500 04263 ENERGIZE TO OPEN AOV3118
I ! OUTPUT TO TSS
+ ] [ + EXT RLU
I 04254
I
+ ] \ [ + ] \ [ - ..... ( )-
I 04263! 04259 04258 1 SECOND PULSE TO RESET
I ! KEYSTROKE
I + [ ] ..... ( )- PULSE TIMER
I ! 00100 04259
I ! [ ]
I + [ T.01-
I 44248
I
+ ] [ - ] [ - ..... ( )-
I 04240 11213 02099 ALARM AOV3118 OPEN DUE TO
I HIGH STEAM PRESSURE
+ ] [ - ] [ - ..... ( )- (PIH3118)
I 04256 11214 02100 ALARM AOV3118 OPEN BECAUSE
I AOV3817 C LOSED (UI3118)
  
```

NETWORK: 00236 SEGMENT: 005 *AOV 3118*

```

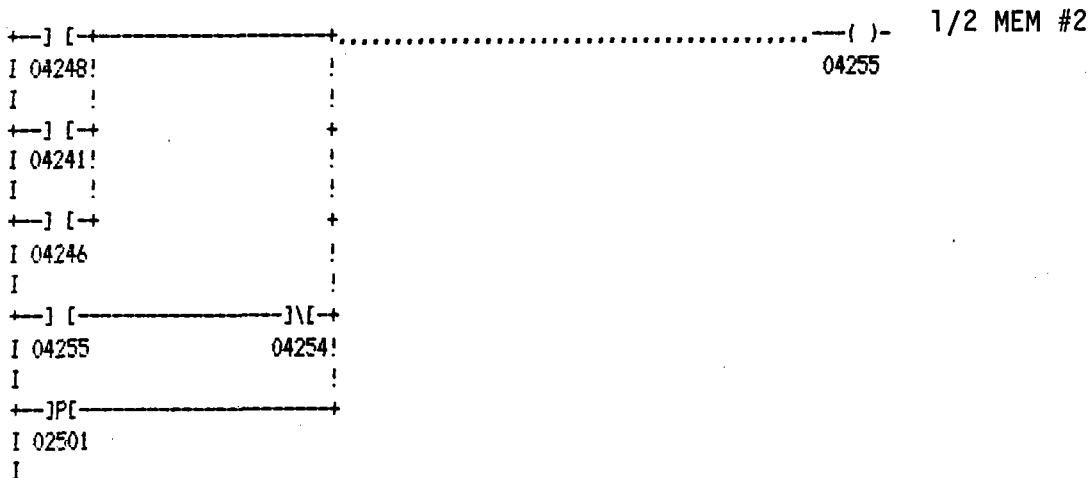
+ ] [ + ] \ [ - ..... ( )- 1/2 MEM #2
I 04240! ! 02500 04254
I ! !
+ ] [ + + + ] \ [ - ..... ( )-
I 04252 ! ! 04253 04252 4 SECOND PULSE FROM AOV
I ! ! 3817 CLOSE COMMAND
+ ] [ - ] \ [ + + [ ] ..... ( )- (SEE NETS 73 and 234)
I 04254 04255 ! 00400 04253 PULSE TIMER
I ! [ ]
+ ] [ - ] [ + + [ T.01-
I 04242 02148! 44249
I ! !
+ ] [ + + [ ] ..... ( )-
I 04261 ! 00100 04261 TSSG Not Ready
I ! [ ]
+ ] \ [ + + [ T.01-
I 02148 48067
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
REV	G	SHEET	111

NETWORK: 00237

SEGMENT: 005

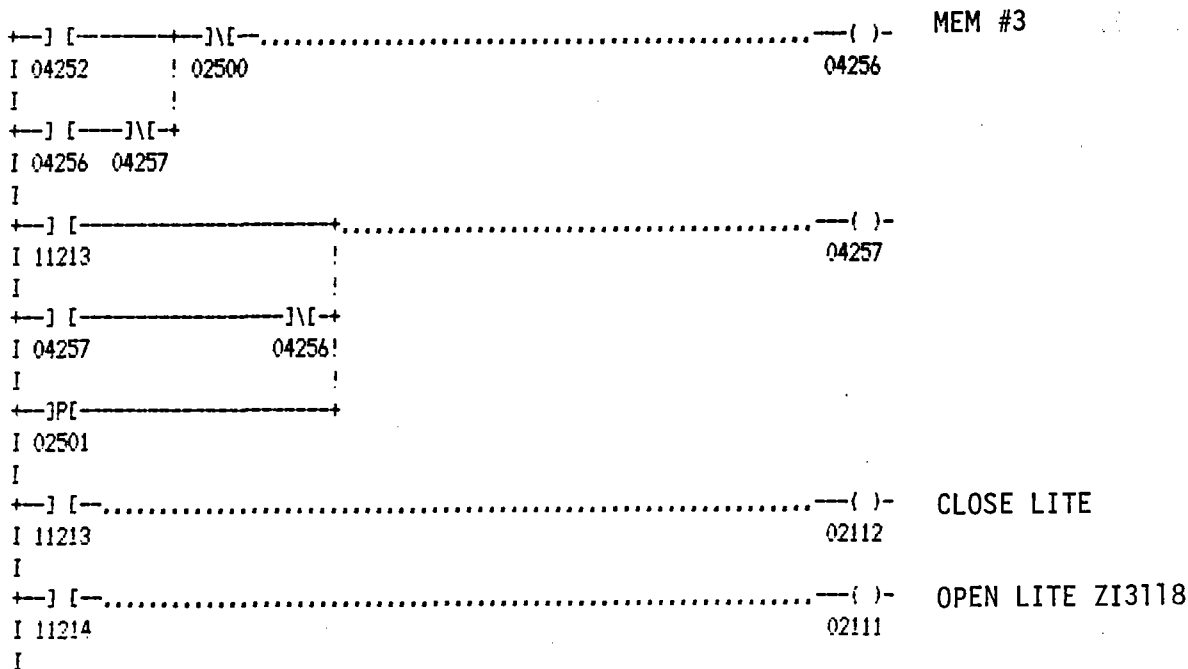
A0V3118



NETWORK: 00238

SEGMENT: 005

A0V3118

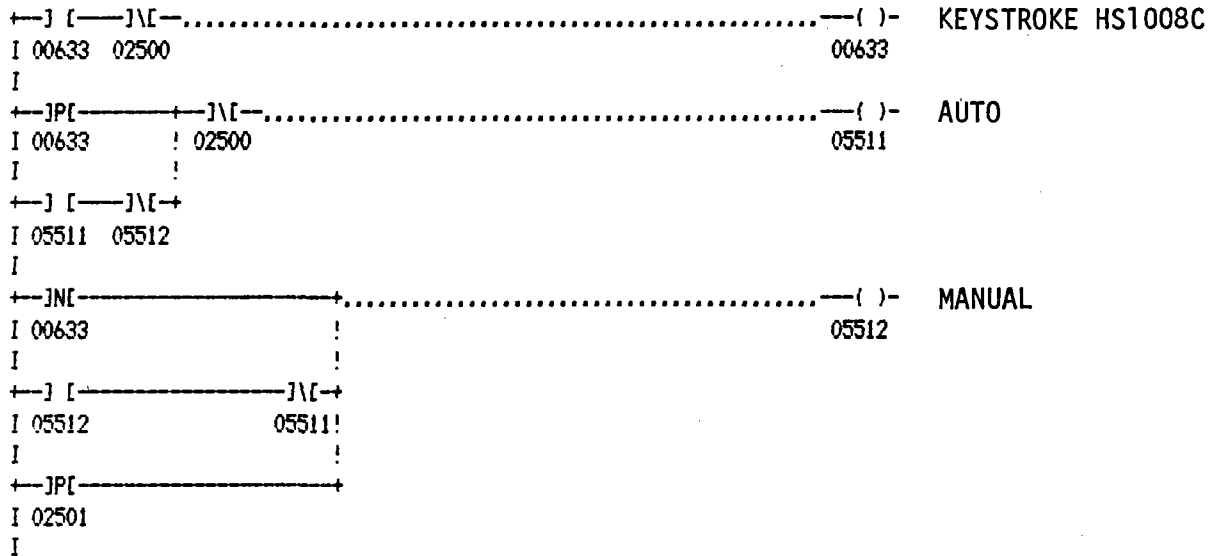


MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

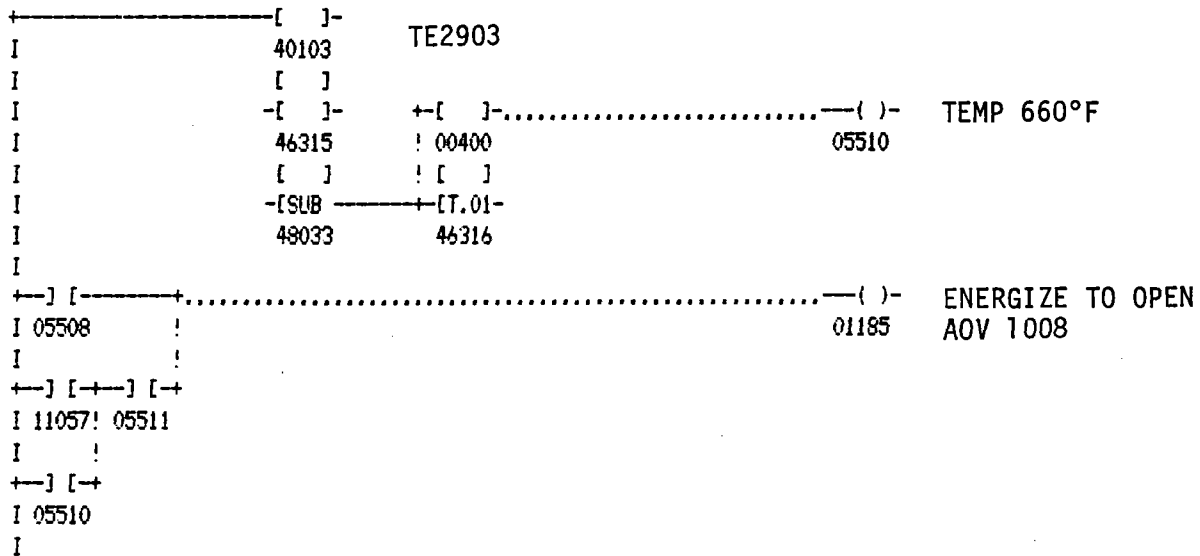
MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV G	SHEET 112	

NETWORK: 00241 SEGMENT: 005 AOV1008

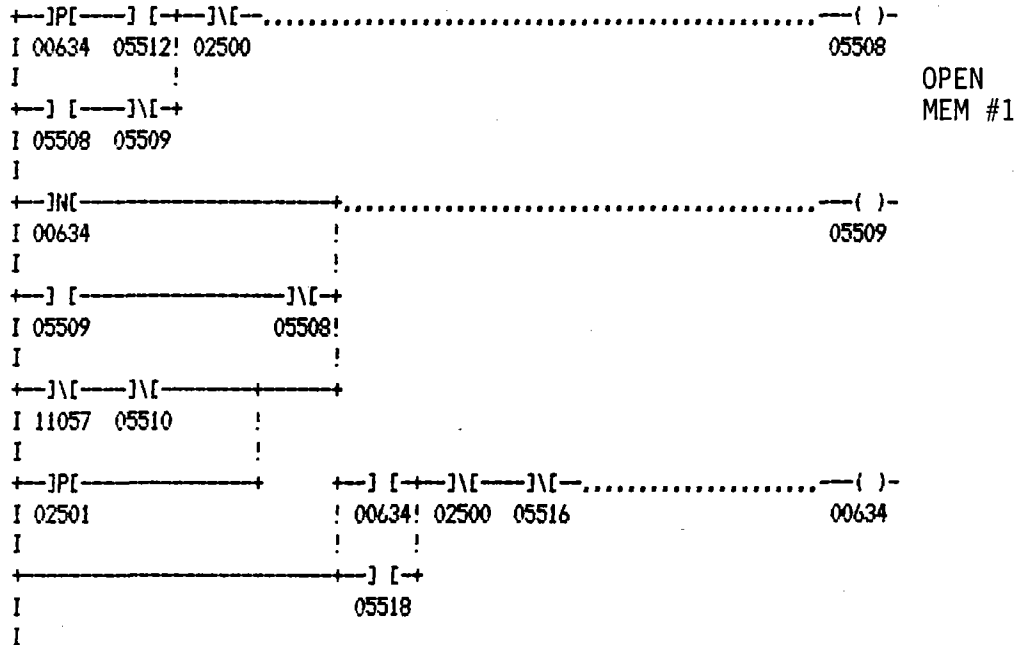


NETWORK: 00242 SEGMENT: 005

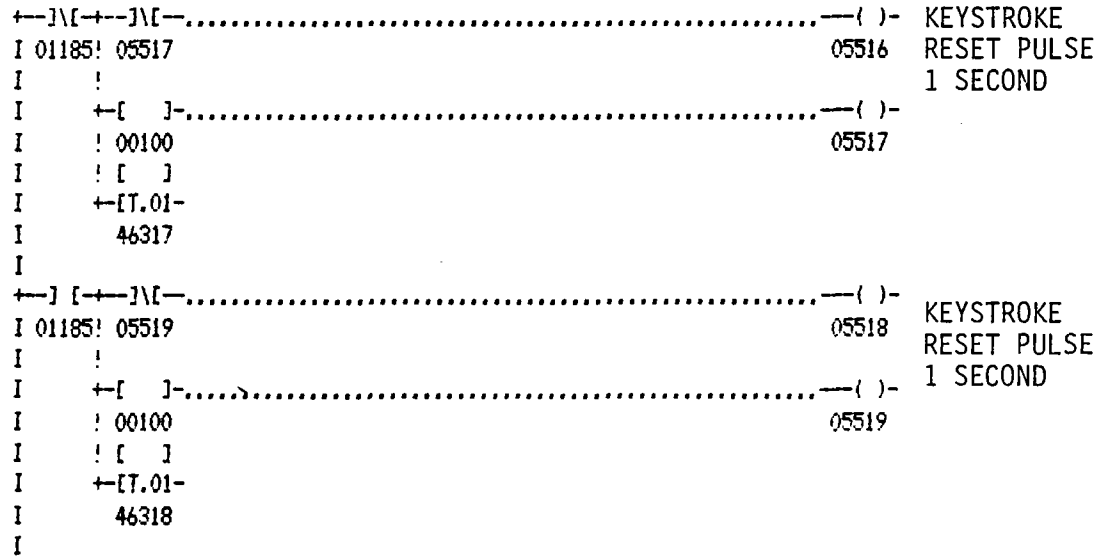


MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
MCDONNELL DOUGLAS	REV	SHEET	
	G	113	

NETWORK: 00243 SEGMENT: 005 AOV 1008



NETWORK: 00244 SEGMENT: 005 AOV 1008



MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE	FSCM NO.	DRAWING NO.
A	18355	1D44789
REV	D	SHEET 114

NETWORK: 00245 SEGMENT: 005

```

+-----[ ]-----+ [ ]----- ( )----- TOTAL FLOW 350 GPM
I 46306 ! 00800 05505
I [ ] ! [ ]
I -[ ]- +[T.01-
I 46307 46308
I [ ]
I -[SUB -
I 48034
I
  
```

```

+-----[ ]-----+ [ ]----- ( )----- TOTAL FLOW 160 GPM
I 46306 ! 00800 05506
I [ ] ! [ ]
I -[ ]- +[T.01-
I 46309 46310
I [ ]
I -[SUB -
I 48035
I
  
```

NETWORK: 00246 SEGMENT: 005

```

+-----[ ]-----
I 46306 ! See Net 249
I [ ] !
I -[ ]- +[ ]----- ( )----- TOTAL FLOW 70 GPM
I 46311 ! 00800 01670 ENERGIZE SOV 1703
I [ ] ! [ ] (OPEN PV 1703)
I -[SUB - +[T.01-
I 48036 46312
I
  
```

```

+-----[ ]-----
I 46306
I [ ]
I -[ ]- +[ ]----- ( )----- TOTAL FLOW 140 GPM
I 46313 ! 00800 05507
I [ ] ! [ ]
I -[SUB - +[T.01-
I 48037 46314
I
  
```

```

+---] [---] [---] [---]----- ( )----- ALARM RECIRC TROUBLE
I 05507 11719 11718 02356 (FIL1703)
I
  
```

***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
MCDONNELL DOUGLAS	REV	G	SHEET 115

NETWORK: 00247 SEGMENT: 005 P 703

```

+-] [+-] [+.....-( )- START P 703
I 05505! 05506! 01672
I ! !
+-] [+ +
I 01672 !
I !
+-] \[-----+
I 11718
I
+-] [------( )- SDPC RUN LITE
I 11719 02203 ZI 1703A
I
+-] \[------( )- SDPC STOP LITE
I 11719 02204
I
  
```

NETWORK: 00248 SEGMENT: 005 P 704

```

+-] [+-] [+.....-( )- START P 704
I 05505! 05506! 01671
I ! !
+-] [+ +
I 01671 !
I !
+-] \[-----+
I 11719
I
I
I
I
+-] [------( )- SDPC RUN LITE
I 11718 02211 ZI 1703B
I
+-] \[------( )- SDPC STOP LITE
I 11718 02212
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

F

SHEET

116

NETWORK: 00249 SEGMENT: 005 P703 & P704

```

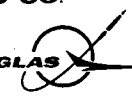
+-----[ ]-
I      40410 FT1703A
I      [ ]
I      -[ ]-
I      40411 FT1703B
I      [ ]
I      -[ADD -
I      46306 TOTAL FLOW (TO NETS 245, 246)
I
I
I
  
```

```

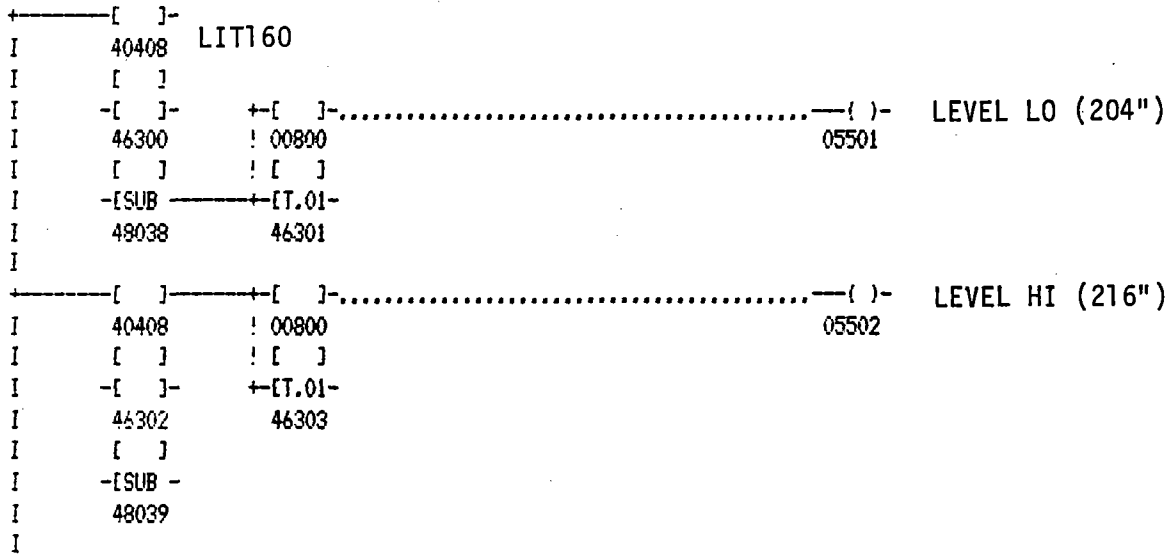
+ ] [---] [---.....-( )- ALARM - BOTH PUMPS RUNNING
I 11718 11719          02208 FIH1703
I
+ ]\ [---]\ [---.....-( )- ALARM - BOTH PUMPS STOPPED
I 11718 11719          02205 UI1703
I
  
```

NETWORK: 00250 SEGMENT: 005 P703 & P704

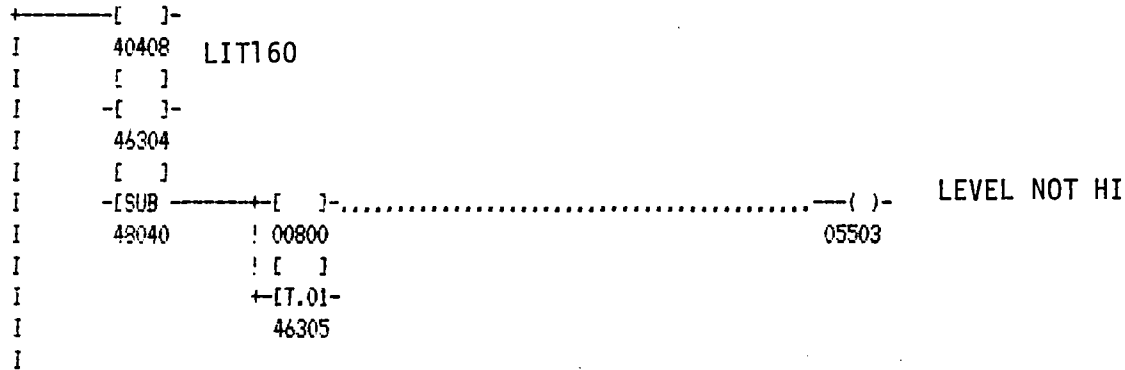
 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS 	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
REV	G	SHEET	117

NETWORK: 00251 SEGMENT: 005



NETWORK: 00252 SEGMENT: 005



***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE	FSCM NO.	DRAWING NO.
A	18355	1044789
REV	G	SHEET 118

NETWORK: 00253 SEGMENT: 005 P710

```

+ ] [---] \ [---] ..... --- ( ) - KEYSTROKE
I 00632 05502 00632
I
+ ] [---] [---] [---] ..... --- ( ) - AUTO START
I 05501! 05503 05504
I !
+ ] [---] [---] [---] ..... --- ( ) - RUN P710
I 05504! 01474
I !
+ ] [---] [---] [---] ..... --- ( ) - P710 START
I 00632! 00100 05520
I ! [ ]
I + [T.01-
I 48041
I
  
```

*MANUAL
P710 START*

NETWORK: 00254 SEGMENT: 005 P710

 * EMPTY NETWORK *

NETWORK: 00255 SEGMENT: 005 P710

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
REV	D	SHEET	119

NETWORK: 00256 SEGMENT: 005 ILS 101 MULTIPLEXER

```


+---]N[---.....--( )-
I 01101                                01101
I
+---] [---[ ]-.....--( )-
I 01101 00002                            01102
I      [ ]
+---]N[---[UCTR-
I 01102 40010
I
+---] [---[ ]-
I 01102 30011    ANALOG INPUT CHANNEL
I      [ ]
I      -[ ]-.....--( )-
I      40100      *                            01103
I      [ ]
+---] [---[R->T-
I 01103 00008      *
I
  
```

NETWORK: 00257 SEGMENT: 005 ILS 101 MUX

 * EMPTY NETWORK *

* Table pointer is 40100. The table is 40101 thru 401XX,
 where XX is the number in the last entry of the R-T. (Max XX=16)

Thus:	Channel	R-T
	1	40101
	2	40102
	3	40103
	.	.
	.	.
	.	.
	XX	401XX

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. 	SIZE	ESCM NO.	DRAWING NO.
	A	18355	1044789
REV	G	SHEET	120

NETWORK: 00258 SEGMENT: 005 ILS 201 MULTIPLEXER

```

+---] \ [---.....( )-
I 01201                                01201
I
+---] [---[ ]-.....( )-
I 01201 00002                            01202
I [ ]
+---] \ [---[UCTR-
I 01202 40020
I
+---] [---[ ]-
I 01202 30021 ANALOG INPUT CHANNEL
I [ ]
I -[ ]-.....( )-
I 40200 *                                01203
I [ ]
+---] [---[R->T-
I 01203 00012 *
I
  
```

NETWORK: 00259 SEGMENT: 005 ILS 201 MUX

 * EMPTY NETWORK *

Table pointer is 40200. The table is 40201 thru 402XX, where XX is the number in the last entry of the R-T (Max XX=16)

Thus:	Channel	RT
	1	40201
	2	40202
	3	40203
	.	.
	.	.
	.	.
	XX	402XX

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
REV	G	SHEET	121

NETWORK: 00260 SEGMENT: 005 ILS 301 MULTIPLEXER

```

+---] [---[ ]-.....-( )-
I 01301                                01301
I
+---] [---[ ]-.....-( )-
I 01301 00002                          01302
I [ ]
+---] [---[UCTR-
I 01302 40030
I
+---] [---[ ]-
I 01302 30031      ANALOG INPUT CHANNEL
I [ ]
I -[ ]-.....-( )-
I 40300 *                                01303
I [ ]
+---] [---[R->T-
I 01303 00004 *
I
  
```

NETWORK: 00261 SEGMENT: 005 ILS 301 MUX

 * EMPTY NETWORK *

* Table pointer is 40300. The table is 40301 thru 403XX, where XX is the number in the last entry of the R-T (Max XX=16)

Thus:	Channel	R-T
	1	40301
	2	40302
	3	40303
	.	.
	.	.
	.	.
	XX	403XX

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
MCDONNELL DOUGLAS		REV	SHEET
		G	122

NETWORK: 00262 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00263 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00264 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00265 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00266 SEGMENT: 006

* EMPTY NETWORK *

***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

123

NETWORK: 00267 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00268 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00269 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00270 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00271 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00272 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00273 SEGMENT: 006

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

D

SHEET

124

NETWORK: 00274 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00275 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00276 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00277 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00278 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00279 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00280 SEGMENT: 006

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

D

SHEET

125

NETWORK: 00281 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00282 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00283 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00284 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00285 SEGMENT: 006

* EMPTY NETWORK *

NETWORK: 00286 SEGMENT: 006

* EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

D

SHEET

126

NETWORK: 00287 SEGMENT: 006 MOV 229

←-]P[←-]N[←-].....-()- OPEN COMMAND
 I 00520! 06005 01799

I !
 ←-] [←-]
 I 01799
 I

←-] [←-[]-.....-()- OPEN PULSE TIME
 I 01799! 00100 06005

I ! []
 I ←-[T.01-
 I 46005
 I

NETWORK: 00288 SEGMENT: 006 MOV 229

←-]N[←-]N[←-]N[←-].....-()- CLOSE COMMAND
 I 00520! 06006 02500 01800

I !
 ←-] [←-]
 I 01800
 I

←-] [←-[]-.....-()- CLOSE PULSE TIMER
 I 01800! 00100 06006

I ! []
 I ←-[T.01-
 I 46006
 I

←-] [←-]N[←-]N[←-].....-()- KEYSTONE - HS-299
 I 00520 02500! 01801 00520

I !
 ←-] [←-] [←-]
 I 11806 02500
 I

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

F

SHEET

127

NETWORK: 00289 SEGMENT: 006 MOV 229

```

+ ] \ [ - ..... ( ) - OPEN LITE
I 11806                02228           ZI229
I
+ ] \ [ - ..... ( ) - CLOSE LITE
I 11805                00229
I
+ ] [ - ..... ( ) - OVERCURRENT LITE I1H229
I 11807                02230
I
  
```

NETWORK: 00290 SEGMENT: 006

 * EMPTY NETWORK *

NETWORK: 00291 SEGMENT: 006 MOV 140

```

+ ] P [ + ] \ [ - ..... ( ) - OPEN COMMAND
I 00519! 06003          01419
I !
+ ] [ +
I 01419
I
+ ] [ + [ ] - ..... ( ) - PULSE TIMER
I 01419! 00100          06003
I ! [ ]
I + [ T.01 -
I 46003
I
  
```

SIZE	FSCM NO.	DRAWING NO.
A	18355	1D44789
REV	F	SHEET
		128

NETWORK: 00292 SEGMENT: 006 MOV 140

```

+---]N[+---]N[---]N[---.....---( )- CLOSE COMMAND
I 00519! 06004 02500 01420
I !
+---] [+---] [+---] [+---]
I 01420
I
+---] [+---] [+---] [+---].....---( )- CLOSE PULSE TIMER
I 01420! 00100 06004
I ! [ ]
I +---[T.01-
I 46004
I
+---] [+---] [+---] [+---].....---( )- KEYSTONE - HS-140
I 00519 02500! 01420 00519
I !
+---] [+---] [+---] [+---]
I 11444 02500
I
  
```

NETWORK: 00293 SEGMENT: 006 MOV 140

```

+---]N[---.....---( )- OPEN LITE
I 11444 02225
I ZI140
+---]N[---.....---( )- CLOSE LITE
I 11443 02226
I
  
```

NETWORK: 00294 SEGMENT: 006

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

F

SHEET

129

NETWORK: 00295 SEGMENT: 006 MOV 110

←]P[←]N[.....—()- OPEN COMMAND
 I 00518! 06001 01417

I !
 ←] [→
 I 01417

←] [←[]-.....—()- PULSE TIMER
 I 01417! 00100 06001

I ! []
 I ←[T.01-
 I 46001
 I

NETWORK: 00296 SEGMENT: 006 MOV 110

←]N[←]N[.....—()- CLOSE COMMAND
 I 00518! 06002 01418

I !
 ←] [→
 I 01418

←] [←[]-.....—()- PULSE TIMER
 I 01418! 00100 06002

I ! []
 I ←[T.01-
 I 46002
 I

←] [—]N[←]N[.....—()- KEYSTROKE - HS-110
 I 00518 02500! 01418 00518

I !
 ←] [—] [→
 I 11442 02500
 I

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE	FSCM NO.	DRAWING NO.
A	18355	1044789
REV	F	SHEET 130

NETWORK: 00297 SEGMENT: 006 MOV 110

```

+-]N[------( )- OPEN LITE
I 11442 .....02222
I
I
+-]N[------( )- CLOSE LITE
I 11441 .....02223
I
  
```

NETWORK: 00298 SEGMENT: 006

 * EMPTY NETWORK *

NETWORK: 00299 SEGMENT: 006 MOV 903

```

+-]P[+-]N[------( )- OPEN COMMAND
I 00521! 06007 .....01633
I
I
+-] [+
I 01633
I
+-] [+ [ ]- .....-( )- PULSE TIMER
I 01633! 00100 .....06007
I ! [ ]
I +-[T.01-
I 46007
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE	FSCM NO.	DRAWING NO.
A	18355	1044789
REV	F	SHEET 131

NETWORK: 00300 SEGMENT: 006 MOV 903

+---]N[---]N[---]N[---].....--()- CLOSE COMMAND
 I 00521! 06008 02500 01634

I
 !
 +---] [+
 I 01634
 I

+---] [+ [].....--()- CLOSE PULSE TIMER
 I 01634! 00100 06008
 I ! []
 I +[T.01-
 I 46008
 I

+---] [---]N[---]N[---].....--()- KEYSTROKE - HS-903
 I 00521 02500! 01634 00521
 I !

+---] [---] [+
 I 11555 02500
 I

NETWORK: 00301 SEGMENT: 006 MOV 903

+---]N[---].....--()- OPEN LITE
 I 11555 02231 ZI903

+---]N[---].....--()- CLOSE LITE
 I 11554 02232

+---] [---].....--()- OVERLOAD - IIH903
 I 11553 02233
 I

NETWORK: 00302 SEGMENT: 006

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
REV	F	SHEET	132

NETWORK: 00303 SEGMENT: 006 MOV904

```

+ ]P[ + ]\[- ..... ( )- OPEN COMMAND
I 00523! 06009 01635
I !
+ ]P[ +
I 11540!
I !
+ ] [ +
I 01635
I
+ ] [ + [ ]- ..... ( )- PULSE TIMER
I 01635! 00100 06009
I ! [ ]
I + [T.01-
I 46009
I
  
```

NETWORK: 00304 SEGMENT: 006 MOV 904

```

+ ]N[ + ]\[- ..... ( )- CLOSE COMMAND
I 00523! 06010 02500 01636
I !
+ ] [ +
I 01636
I
+ ] [ + [ ]- ..... ( )- CLOSE PULSE TIMER
I 01636! 00100 06010
I ! [ ]
I + [T.01-
I 46010
I
+ ] [ - ]\[- ..... ( )- KEYSTROKE - HS-904
I 00523 02500! 01636 00523
I !
+ ] [ - ] [ +
I 11558 02500
I
  
```

**** END OF LISTING ****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV G	SHEET 133	

NETWORK: 00305 SEGMENT: 006 MOV 904

```

+-]V[-.....-( )- OPEN LITE
I 11558 02234 ZI904
I
+-]V[-.....-( )- CLOSE LITE
I 11557 02235
I
+-] [-.....-( )- OVERLOAD - I1H904
I 11556 02236
I
  
```

NETWORK: 00306 SEGMENT: 006 MOV905

 * EMPTY NETWORK *

NETWORK: 00307 SEGMENT: 006 *MOV 905*

```

+-]P[+-]V[-.....-( )- OPEN COMMAND
I 00524! 06011 01637
I !
+-] [+
I 01637
I
+-] [+ [ ] .....-( )- PULSE TIMER
I 01637! 00100 06011
I ! [ ]
I +-[T.01-
I 46011
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
	REV G	SHEET 134	

NETWORK: 00308 SEGMENT: 006 MOV 905

```

+---]N[+---]N[+---]N[+---].....--( )- CLOSE COMMAND
I 00524! 06012 02500 01638
I      !
+---] [+
I 01638
I
+---] [+ [ . ] .....--( )- CLOSE PULSE TIMER
I 01638! 00100 06012
I      ! [ ]
I      +[T.01-
I      46012
I
+---] [---]N[+---]N[+---].....--( )- KEYSTROKE - HS-905
I 00524 02500! 01638 00524
I      !
+---] [---] [+
I 11560 02500
I
  
```

NETWORK: 00309 SEGMENT: 006 MOV 905

```

+---]N[.....--( )- OPEN LITE ZI905
I 11561 02237
I
+---]N[.....--( )- CLOSE LITE
I 11560 02238
I
+---] [---] .....--( )- OVERLOAD - IIH905
I 11559 02239
I
  
```

NETWORK: 00310 SEGMENT: 006

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE A	FSCM NO. 18355	DRAWING 1044789
	REV G	SHEET 135	

NETWORK: 00311 SEGMENT: 006 MOV 906

←]P[←]N[.....()- OPEN COMMAND
 I 00525! 06013 01639

I !
 ←]P[→

I 11540!
 I !

←] [→
 I 01639

←] [←[]-.....()- PULSE Timer
 I 01639! 00100 06013

I ! []
 I ←[T.01-
 I 46013
 I

NETWORK: 00312 SEGMENT: 006 MOV 906

←]N[←]N[←]N[.....()- CLOSE Command
 I 00525! 06014 02500 01640

I !
 ←] [→

I 01640
 I

←] [←[]-.....()- CLOSE PULSE TIMER
 I 01640! 00100 06014

I ! []
 I ←[T.01-
 I 46014
 I

←] [←]N[←]N[.....()- KEYSTROKE - HS-906
 I 00525 02500! 01640 00525

I !
 ←] [←] [→
 I 11564 02500
 I

***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

G

SHEET

136

NETWORK: 00313 SEGMENT: 006 MOV906

```

+-]N[------( )- OPEN LITE
I 11564 02242 ZI906
I
+-]N[------( )- CLOSE LITE
I 11563 02243
I
+-] [------( )- OVERLOAD - IIH906
I 11562 02244
I
  
```

NETWORK: 00314 SEGMENT: 007 ILS 401 MULTIPLEXER

```

+-]N[------( )-
I 01401 01401
I
+-] [---[ ]------( )-
I 01401 00001 01402
I [ ]
+-]N[---[UCTR-
I 01402 40040
I
+-] [---[ ]-
I 01402 30041
I [ ]
I -[ ]------( )-
I 40400 * 01403
I [ ]
+-] [---[R->T-
I 01403 00016 *
I
  
```

NETWORK: 00315 SEGMENT: 007

 * EMPTY NETWORK *

* Table pointer if 40400. The table is 40401 thru 404XX, where XX is the number is the last entry of the R T (Max XX=16)


THUS:	CHANNEL	R-T
	1	40401
	2	40402
	3	40403
	XX	404XX

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
	MCDONNELL DOUGLAS	REV G	SHEET 137

NETWORK: 00318 SEGMENT: 007 MOV 935

+J\[-.....-()-
I 11571 02246 open Lite ZI935
I
+J\[-.....-()-
I 11570 02247 Close Lite
I
+J\[-.....-()-
I 11569 02248 overload Lite- ITH 935
I

**** END OF LISTING ****

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS 	SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
	REV G	SHEET 138.1	

NETWORK: 00319 SEGMENT: 007

MOV 960

```

+ ]P[ + ]N[ ..... ( )-
I 00528! 06017          01587 Open Command
I      !
+ ] [ +
I 01587
I
+ ] [ + [ ] ..... ( )-
I 01587! 00100          06017 pulse timer
I      ! [ ]
I      + [T.01-
I      46017
I
  
```

NETWORK: 00320 SEGMENT: 007

MOV 960

```

+ ]N[ + ]N[ ..... ( )- CLOSE COMMAND
I 00528! 06018 02500    01588
I      !
+ ] [ +
I 01588
I
+ ] [ + [ ] ..... ( )- CLOSE PULSE TIMER
I 01588! 00100          06018
I      ! [ ]
I      + [T.01-
I      46018
I
+ ] [ --- ]N[ + ]N[ ..... ( )- KEYSTROKE - HS-960
I 00528 02500! 01588    00528
I      !
+ ] [ --- ] [ +
I 11583 02500
I
  
```

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 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

139

NETWORK: 00321 SEGMENT: 007 MOV 960

```

+--] \ [----- ( )- OPEN LITE
I 11583 02250 ZI 960
I
+--] \ [----- ( )- CLOSE LITE
I 11582 02251
I
+--] [----- ( )- OVERLOAD - IIH960
I 11581 02252
I
  
```

NETWORK: 00322 SEGMENT: 007 MOV982

 * EMPTY NETWORK *

NETWORK: 00323 SEGMENT: 007 MOV 982

```

+--] P [ +--] \ [----- ( )- OPEN COMMAND
I 00529! 06019 01569
I !
+--] [ +
I 01569
I
+--] [ + [ ]----- ( )- PULSE TIMER
I 01569! 00100 06019
I ! [ ]
I + [ T.01-
I 46019
I
  
```

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

G

SHEET

140

NETWORK: 00324 SEGMENT: 007 MOV 982

```

+ ]N[ + ]\ [ - ]\ [ - ..... ( ) - CLOSE COMMAND
I 00529! 06020 02500 01570
I !
+ ] [ +
I 01570
I
+ ] [ + [ ] ..... ( ) - CLOSE PULSE TIMER
I 01570! 00100 06020
I ! [ ]
I + [ T.01 -
I 46020
I
+ ] [ - ]\ [ + ]\ [ - ..... ( ) - KEYSTROKE - HS-982
I 00529 02500! 01570 00529
I !
+ ] [ - ] [ +
I 11567 02500
I
  
```

NETWORK: 00325 SEGMENT: 007 MOV 982

```

+ ]\ [ - ..... ( ) - OPEN LITE ZI982
I 11567 02254
I
+ ]\ [ - ..... ( ) - CLOSE LITE
I 11566 02255
I
+ ] [ - ..... ( ) - OVERLOAD - IIH982
I 11565 02256
I
  
```

NETWORK: 00326 SEGMENT: 007

 * EMPTY NETWORK *

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

G

SHEET

141

NETWORK: 00327 SEGMENT: 007 MOV990

+-]PI+-]I[-.....-()- OPEN COMMAND
 I 00531! 06021 01585

I !
 +-] [+
 I 01585
 I

+-] [+ []-.....-()- PULSE TIME
 I 01585! 00100 06021

I ! []
 I +-[T.01-
 I 46021
 I

NETWORK: 00328 SEGMENT: 007 MOV 990

+-]NI+-]I[-.....-()- CLOSE COMMAND
 I 00531! 06022 02500 01586

I !
 +-] [+
 I 01586
 I

+-] [+ []-.....-()- CLOSE PULSE TIMER
 I 01586! 00100 06022

I ! []
 I +-[T.01-
 I 46022
 I

+-] [---]I[-+-]I[-.....-()- KEYSTROKE - HS-990
 I 00531 02500! 01586 00531

I !
 +-] [---] [+
 I 11580 02500
 I

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 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

142

NETWORK: 00329 SEGMENT: 007 MOV 990

```

+--]V[-----] ( )- OPEN LITE
I 11580 02258 ZI990
I
+--]V[-----] ( )- CLOSE LITE
I 11579 02259
I
+--] [-----] ( )- OVERLOAD - I1H990
I 11578 02260
I
  
```

NETWORK: 00330 SEGMENT: 007 MOV991

 * EMPTY NETWORK *

NETWORK: 00331 SEGMENT: 007 *MOV 991*

```

+--]P[+--]V[-----] ( )- OPEN COMMAND
I 00532! 06023 01575
I !
+--] [+
I 01575
I
+--] [+ [ ]-----] ( )- PULSE TIMER
I 01575! 00100 06023
I ! [ ]
I +[T.01-
I 46023
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

143

NETWORK: 00332 SEGMENT: 007 MOV991

←]N[←]N[←]N[←].....()- CLOSE COMMAND
 I 00532! 06024 02500 01576

I !
 ←] [←
 I 01576

←] [←[].....()- PULSE TIMER
 I 01576! 00100 06024

I ! []
 I ←[T.01-
 I 46024

←] [←]N[←]N[←].....()- KEYSTROKES-HS991
 I 00532 02500! 01576 00532

I !
 ←] [←] [←
 I 11482 02500
 I

NETWORK: 00333 SEGMENT: 007 MOV 991

←]N[←].....()- OPEN LITE
 I 11482 02262 ZI-991

←]N[←].....()- OPEN LITE
 I 11481 02263

←] [←].....()- OVERLOAD - IIH-991
 I 11476 02264

NETWORK: 00334 SEGMENT: 007

 * EMPTY NETWORK *

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV G	SHEET 144	

NETWORK: 00335 SEGMENT: 007 P 901 - COOLING WATER PUMP

```

+JNC+JVC---JVC-----() STOP PULSE
I 00535! 06027 02500 01424
I !
+J [ + + [ ] - () PULSE TIMER
I 01424! ! 00100 06027
I ! ! [ ]
+JPI+---[T.01- + [ ]- + [ ]- () SURGE TANK LO LEVEL TRIP
I 06026! 46027 ! 40412 ! 00400 06026
I ! ! [ ] ! [ ]
+JNC+ +---+ [ ]- + [T.01-
I 02274 ! 46235 ! 46236
I ! [ ] !
+---+ -[SUB +---+
I 48105
I
  
```

NETWORK: 00336 SEGMENT: 007 COOLING WATER PUMP - P-901

```

+J [ --- ] [ +
I 11730 02500!
I !
+J [ --- ] JVC+JVC-----() KEYSTROKE - HS-313
I 00535 02500 01424 00535
I !
+JPI+---JVC-----() START PULSE
I 00535! 06028 01423
I !
+J [ +
I 01423
I
+J [ + [ ] - () START PULSE TIMER
I 01423! 00100 06028
I ! [ ]
I + [T.01-
I 46028
I
+J [ - () RUN LITE ZI313
I 11730 02274
I
  
```

NETWORK: 00337 SEGMENT: 007

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
	REV	G	SHEET
			145

NETWORK: 00338 SEGMENT: 007 VACUUM PUMP - P910

```

+---]NI[+---]NI[---]NI[---].....--( )- STOP PULSE
I 00536! 06029 02500                      01444
I      !
+---] [+
I 01444
I
+---] [+ [ ] ]-.....--( )- STOP PULSE TIMER
I 01444! 00100                      06029
I      ! [ ]
I      +---[T.01-
I      46029
I
+---] [---].....--( )- BREAKERS POSITION PERM LITE
I 11735                      02320 ZI-155
I
  
```

NETWORK: 00339 SEGMENT: 007 VACUUM PUMP - P-910

```

+---] [---] [+
I 11735 02500!
I      !
+---] [---]NI[+.....--( )- KEYSTROKE - HS-155
I 00536 02500                      00536
I
+---]NI[+---]NI[---].....--( )- START PULSE
I 00536! 06030                      01443
I      !
+---] [+
I 01443
I
+---] [+ [ ] ]-.....--( )- START PULSE TIMER
I 01443! 00100                      06030
I      ! [ ]
I      +---[T.01-
I      46030
I
  
```

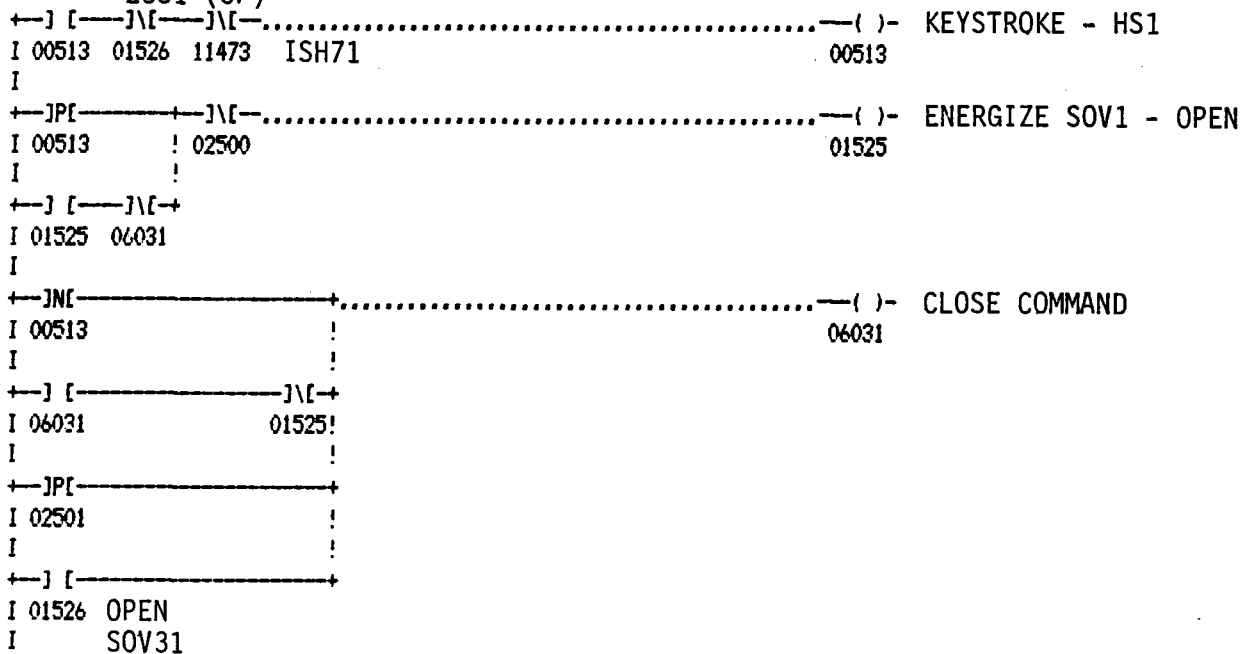
NETWORK: 00340 SEGMENT: 007

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
MCDONNELL DOUGLAS	REV	D	SHEET 176

NETWORK: 00341 SEGMENT: 007 LV1 - FEEDWATER TO TSS

Z531 (OP)



NETWORK: 00342 SEGMENT: 007

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

D

SHEET

147

NETWORK: 00345 SEGMENT: 007 TSS/AUX BOILER FEEDPUMP - P904

```

+ ] [ - ..... ( ) - KEYSTROKE - HS71
I 00515                                06032
I
+ ] [ - ..... ( ) - ENABLE PUMP START
I 00515                                06034
I
+ ] [ - ] [ - ] [ - ..... ( ) - DISABLE PUMP START
I 00515 02500 11473                    00515
I
  
```

NETWORK: 00346 SEGMENT: 007 TSS/AUX BOILER FEEDPUMP - P904

```

+ [ ] -
I 40209 LT3705
I [ ]
I - [ ] -
I 46031
I [ ]
I - [SUB + [ ] - ..... ( ) - TS BOILER E305 LO LEVEL
I 48050 ! 00500                                06035
I ! [ ]
+ [ ] - + [T.01]-
I 40210 48047
I [ ] LT3805
I - [ ] -
I 46032
I [ ]
I - [SUB + [ ] - ..... ( ) - TS BOILER E306 LO LEVEL
I 48051 ! 00500                                06036
I ! [ ]
I + [T.01]-
I 48048
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

G

SHEET

149

NETWORK: 00349 SEGMENT: 007 TSS/AUX BOILER FEEDPUMP - P904

LSL690

```

+ ] [---] \ [---] [ + ] \ [---] ..... ( ) - STOP COMMAND
I 11478 01525 01526! 05679 01414
I !
+ ] [ + ] \ [---] [ + ]
I 06037! 01526 01525!
I !
+ ] [ + ]
I 06038 !
I !
+ ] [-----]
I 11473 !
I !
+ ] [-----] + [ ] ..... ( ) - PULSE TIMER
I 06034 ! 00100 05679
I ! [ ]
I +-[T.01-
I 46220
I
  
```

NETWORK: 00350 SEGMENT: 007 TS AUX BOILER FEEDPUMP - P904

```

+ ] [---] ..... ( ) - STOP LITE
I 11475 02270 ZI71
I
+ ] [---] ..... ( ) - RUN LITE
I 11474 02269
I
+ ] [---] ..... ( ) - OVERLOAD - I1H71
I 11473 02271
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

F

SHEET

151

NETWORK: 00351 SEGMENT: 007 TSS AUX BOILER FEEDPUMP - P904 STATUS

```

+-] [+
I 06034!
I !
+-] [+ ..... -( )- BREAKER OPEN
I 02550 02550
I
  
```

NETWORK: 00352 SEGMENT: 007 MOV 609

```

+-] [---] [+
I 11450 02500!
I !
+-]P[+-----]N[.....-( )- KEYSTROKE - HS609
I 11540! 01446 00539
I !
+-] [++[ ]-.....-( )- OPEN COMMAND
I 00539 00001 01445
I [ ]
+-----[UCTR-.....-( )- CLOSE COMMAND
I 48116 01446
I
+-]N[---[ ]-
I 00539 00000
I [ ]
I -[ ]-
I 00000
I [ ]
I -[SUB -
I 48116
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

F

SHEET

152

NETWORK: 00353 SEGMENT: 007 MOV 609

```

+-] [-----] ( )- OPEN LITE
I 11450 02275 ZI609
I
+-] [-----] ( )- CLOSE LITE
I 11451 02276
I
  
```

NETWORK: 00354 SEGMENT: 007 MOV 615

```

+-] [---] [+
I 11454 02500!
I !
+-] [---] [NE] ( )- KEYSTROKE HS615
I 11540! 01476 00540
I !
+-] [---] [ ] ( )- OPEN COMMAND
I 00540 00001 01475
I [ ]
+-] [---] [LCTR] ( )- CLOSE COMMAND
I 48117 01476
I
+-] [NE] [ ]-
I 00540 00000
I [ ]
I -[ ]-
I 00000
I [ ]
I -[SUB -
I 48117
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

F

SHEET

153

NETWORK: 00355 SEGMENT: 007 MOV 615

```

+-] [---] [---] .....-( )- OPEN LITE
I 11454 02278 ZI 615
I
+-] [---] [---] .....-( )- CLOSE LITE
I 11455 02279
I
  
```

NETWORK: 00356 SEGMENT: 007 MOV 616

```

+-] [---] [---] [---]
I 11458 02500!
I
+-] [---] [---] [---] .....-( )- KEYSTROKE - HS616
I 00541 01478 00541
I
+-] [---] [---] [---] .....-( )- OPEN COMMAND
I 00541 00001 01477
I [ ]
+-] [---] [---] [---] .....-( )- CLOSE COMMAND
I 48115 01478
I
+-] [---] [---] [---]
I 00541 00000
I [ ]
I -[ ]-
I 00000
I [ ]
I -[SUB -
I 48115
I
  
```

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 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE	FSCM NO.	DRAWING NO.
A	18355	1D44789
REV	F	SHEET
		154

NETWORK: 00357 SEGMENT: 007 MOV 616

```

+ ] [ - ..... ( ) - OPEN LITE
I 11457 02281 ZI 616
I
+ ] [ - ..... ( ) - CLOSE LITE
I 11458 02282
I
  
```

NETWORK: 00358 SEGMENT: 007 MOV 617

```

+ ] [ - ] [ +
I 11459 00250!
I !
+ ] [ - ] [ - ..... ( ) - KEYSTROKE - HS617
I 00543 01480 00543
I
+ ] [ - [ ] ..... ( ) - OPEN COMMAND
I 00543 00001 01479
I [ ]
+ ] [ - [UCTR] ..... ( ) - CLOSE COMMAND
I 48118 01480
I
+ ] [ - [ ] -
I 00543 00000
I [ ]
I - [ ] -
I 00000
I [ ]
I - [SUB -
I 48118
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1044789
REV F	SHEET 155	

NETWORK: 00359 SEGMENT: 007 MOV 617

```

+ ] [ - ..... - ( ) - OPEN LITE
I 11459                                02284          ZI 617
I
+ ] [ - ..... - ( ) - CLOSE LITE
I 11460                                02285
I
  
```

NETWORK: 00360 SEGMENT: 007 MOV 623

```

+ ] [ - ] [ +
I 11452 02500!
I
+ ] [ - ] [ - ..... - ( ) - KEYSTROKE - HS623
I 00546                                01448          00546
I
+ ] [ - [ ] - ..... - ( ) - OPEN COMMAND
I 00546 00001                                01447
I [ ]
+ ] [ - [ UCTR - ..... - ( ) - CLOSE COMMAND
I 48119                                01448
I
+ ] [ - ] [ -
I 00546 00000
I [ ]
I - [ ] -
I 00000
I [ ]
I - [ SUB -
I 48119
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE	FSCM NO.	DRAWING NO.
A	18355	1044789
REV	F	SHEET
		156

NETWORK: 00361 SEGMENT: 007 MOV 623


```

+ ] [ - ..... ( ) - OPEN LITE
I 11452 02287 ZI 623
I
+ ] [ - ..... ( ) - CLOSE LITE
I 11453 02288
I
  
```

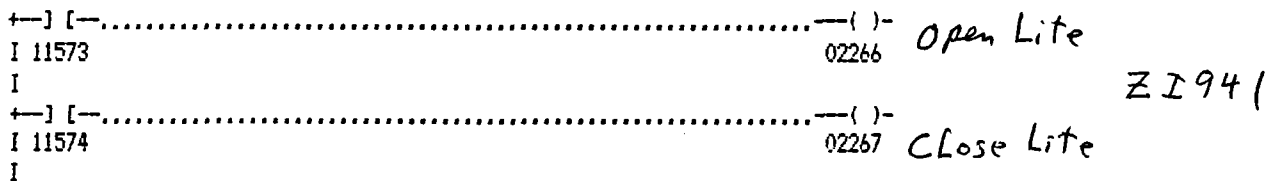
NETWORK: 00362 SEGMENT: 007 MOV 941

```

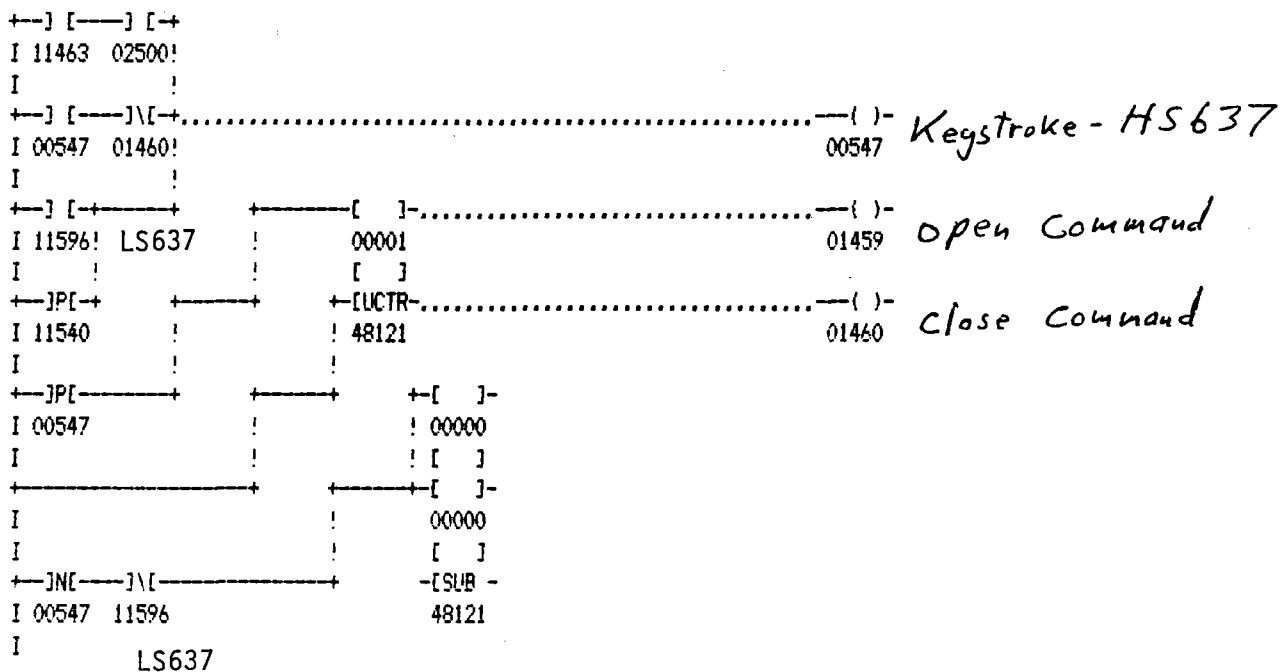
+ ] [ - ] [ + ..... ( ) - KEYSTROKE - HS941
I 11573 02500! 00548
I !
+ ] [ + [ ] - ..... ( ) - OPEN COMMAND
I 00548 00001 01573
I [ ]
+ [ UCTR ..... ( ) - CLOSE COMMAND
I 48120 01574
I
+ ] [ - [ ] -
I 00548 00000
I [ ]
I - [ ] -
I 00000
I [ ]
I - [ SUB -
I 48120
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS 	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
REV	F	SHEET	157

NETWORK: 00363 SEGMENT: 007 *MOV 941*



NETWORK: 00364 SEGMENT: 007 *MOV 637*



MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	ID44789
REV	<i>G</i>	SHEET	<i>158</i>

NETWORK: 00365 SEGMENT: 007

MOV 637

```

+ ] [ - ..... - ( ) -
I 11463          02290  Open Lite
I
I
+ ] [ - ..... - ( ) -
I 11464          02291  close Lite
I
I
+ ] [ - ..... - ( ) -
I 11596  LS637    02273  Level Hi - LIH637
I
  
```

ZI637

NETWORK: 00366 SEGMENT: 007

 * EMPTY NETWORK *

NETWORK: 00367 SEGMENT: 007

MOV 650

```

+ ] [ - ] [ +
I 11465 02500!
I
I
+ ] [ - ] [ + ..... - ( ) -
I 00550 01462!          00550  Keystroke - HS650
I
I
+ ] [ + ] [ + ..... - ( ) -
I 11595! LS650          ! 00001          01461  Open Command
I
I
+ ] [ + ] [ + ..... - ( ) -
I 11540          !          ! 48122          01462  Close Command
I
I
+ ] [ + ] [ + ..... - ( ) -
I 00550          !          ! 00000
I
I
+ ] [ + ] [ + ..... - ( ) -
I          !          ! 00000
I
I
+ ] [ + ] [ + ..... - ( ) -
I 00550 11595          !          ! 48122
I
  
```

**** END OF LISTING ****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

159

NETWORK: 00368 SEGMENT: 007 MOV 650

```

+ ] [ - ..... - ( ) - OPEN LITE
I 11465 02293 ZI 650
I
+ ] [ - ..... - ( ) - CLOSE LITE
I 11466 02294
I
+ ] [ - ..... - ( ) - LIH 650
I 11595 02329
I
  
```

NETWORK: 00369 SEGMENT: 007

 * EMPTY NETWORK *

NETWORK: 00370 SEGMENT: 007 MOV 652

```

+ ] [ - ] [ +
I 11469 02500!
I !
+ ] [ - ] [ + ..... - ( ) - KEYSTROKE - HS652
I 00551 01522! 00551
I !
+ ] [ - ] [ + ..... - ( ) - OPEN COMMAND
I 11598 ! 00001 01521
I ! [ ]
+ ] [ - ] [ + ..... - ( ) - CLOSE COMMAND
I 00551 ! 48123 01522
I !
+ ] [ - ] [ + ..... - ( ) -
I ! 00000
I ! [ ]
+ ] [ - ] [ + ..... - ( ) -
I 00551 00000
I [ ]
I -[SUB -
I 48123
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE	FSCM NO.	DRAWING NO.
A	18355	1D44789
REV	F	SHEET 160

NETWORK: 00371 SEGMENT: 007 MOV 652

```

+ ] [---.....( )- OPEN LITE
I 11469 02296 ZI652
I
+ ] [---.....( )- CLOSE LITE
I 11470 02297
I
+ ] [---.....( )- LIH 652
I 11598 02216
I
  
```

NETWORK: 00372 SEGMENT: 007

 * EMPTY NETWORK *

NETWORK: 00373 SEGMENT: 008 MOV 675

```

+ ] [---] [+
I 11461 02500!
I
+ ] [-----] [---.....( )- KEYSTROKE - HS 675
I 00552 01458 00552
I
+ ] [---[ ]-.....( )- OPEN COMMAND
I 00552 00001 01457
I [ ]
+ ] [UCTR-.....( )- CLOSE COMMAND
I 48124 01458
I
+ ] [NC---[ ]-
I 00552 00000
I [ ]
I -[ ]-
I 00000
I [ ]
I -[SUB -
I 48124
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
REV	F	SHEET	161

NETWORK: 00377 SEGMENT: 008 MOV 676

```

+ ] [ - ..... ( )- OPEN LITE
I 11467 02302 ZI 676
I
+ ] [ - ..... ( )- CLOSE LITE
I 11468 02303
I
+ ] [ - ..... ( )- LIH 676
I 11597 02305
I
  
```

NETWORK: 00378 SEGMENT: 008

 * EMPTY NETWORK *

NETWORK: 00379 SEGMENT: 008 MOV 999

```

+ ] [ - ] [ +
I 11471 02500!
I !
+ ] P [ + ] [ - ..... ( )- KEYSTROKE - HS 999
I 11540! 01524 00555
I !
+ ] [ + [ ] - ..... ( )- OPEN COMMAND
I 00555 00001 01523
I [ ]
+ ] [ UCTR - ..... ( )- CLOSE COMMAND
I 48126 01524
I
+ ] N [ - [ ] -
I 00555 00000
I [ ]
I - [ ] -
I 00000
I [ ]
I - [ SUB -
I 48126
I
  
```

**** END OF LISTING ****

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
REV	F	SHEET	163

NETWORK: 00380 SEGMENT: 008 MOV 999

```

+ ] [ - ..... ( ) - OPEN LITE
I 11471 02306 ZI 999
I
+ ] [ - ..... ( ) - CLOSE LITE
I 11472 02307
I
  
```

NETWORK: 00381 SEGMENT: 008

 * EMPTY NETWORK *

NETWORK: 00382 SEGMENT: 008 COOLING TOWER FAN - FA 903

```

I
I
I
+ ] [ - ..... ( ) - START COMMAND - LOW SPEED
I 00568! 06063 01827
I !
+ ] [ - ..... ( ) - PULSE TIMER
I 01827! 00100 06063
I ! [ ]
I + [ T.01 -
I 46090
I
+ ] [ - ..... ( ) - RUN LITE - LO SPEED
I 11810 ZS 232L 02343 ZI 232L
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

E

SHEET

164

NETWORK: 00383 SEGMENT: 008 COOLING TOWER FAN FA 903

```

I
I
I
+ ] [ + ] \ [ - ] [ - ..... ( )- START COMMAND - HI SPEED
I 00569! 06064 11810 01826
I !
+ ] [ +
I 01826
I
+ ] [ + [ ] - ..... ( )- PULSE TIMER
I 01826! 03000 06064
I ! [ ]
I + [ T.01 -
I 46091
I
+ ] [ - ..... ( )- RUN LITE - HI SPEED
I 11809 ZS 232H 02345 ZI 232H
I
  
```

NETWORK: 00384 SEGMENT: 008 COOLING TOWER FAN - FA 903

```

+ ] \ [ - ] \ [ - ] \ [ - ..... ( )- STOP COMMAND
I 00569 00568! 06065 02500 01828
I !
+ ] \ [ - ] \ [ -
I 00568 00569!
I !
+ ..... ] [ +
I 01828
I
+ ..... ] [ + [ ] - ..... ( )- PULSE TIMER
I 01828! 00100 06065
I ! [ ]
I + [ T.01 -
I 46092
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
REV	E	SHEET	165

NETWORK: 00388 SEGMENT: 008

 * EMPTY NETWORK *

NETWORK: 00389 SEGMENT: 008

 * EMPTY NETWORK *

NETWORK: 00390 SEGMENT: 008 COOLING TOWER FAN - FA 901

```

+--JP[--+J]\[----- ( )- START COMMAND - LOW SPEED
I 00562! 05716 01795
I !
+--] [+
I 01795
I
+--] [+ [ ]-..... ( )- PULSE TIMER
I 01795! 00100 05716
I ! [ ]
I +[T.01-
I 46159
I
+--] [+..... ( )- RUN LITE - LOW SPEED
I 11794 ZS 208L 02326 ZI208L
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1044789
REV E	SHEET 167	

NETWORK: 00391 SEGMENT: 008 COOLING TOWER FAN - FA 901

```

I
I
I
+---]P[---]N[---] [---].....--( )- START COMMAND - HI SPEED
I 00563! 06058 11794 01794
I !
+---] [---]
I 01794
I
+---] [---] [---].....--( )- PULSE TIMER
I 01794! 03000 06058
I ! [ ]
I +---[T.01-
I 46085
I
+---] [---].....--( )- RUN LITE - HI SPEED
I 11793 ZS 208H 02327 ZI 208H
I
  
```

NETWORK: 00392 SEGMENT: 008 COOLING TOWER FAN - FA 901

```

+---]N[---]N[---]
I 00563 00562!
I !
+---]N[---]N[---]
I 00562 00563!
I !
+---] [---] [---].....--( )- STOP COMMAND
I 01796 06059 02500 01796
I
+---] [---] [---].....--( )- PULSE TIMER
I 01796! 00100 06059
I ! [ ]
I +---[T.01-
I 46086
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

E

SHEET

168

NETWORK: 00393 SEGMENT: 008 COOLING TOWER FAN - FA 901

```

+ ] [ - ..... - ( ) - OVERLOAD LITE - I1H 208
I 11798                                02330
I
+ ] [ - ..... - ( ) - VIBRATION LITE - XIH 208
I 11796                                02332
I
+ ] [ - ..... - ( ) - OIL LOW LITE - LIL 208
I 11797                                02331
I
+ ] [ - ] [ +
I 11794 02500!
I !
                                FTSL
+ ] [ - ] \ + ] \ - ] \ - ] \ - ..... - ( ) - KEYSTROKE - LO - HS 208C
I 00562 01794 11796 11797 11798 05680 00562
I
+ ] [ - + ] \ - ] \ - ] \ - ] \ - ..... - ( ) - KEYSTROKE - HI - HS 208H
I 00563 ! 11796 11797 11798 01795 05681 00563
I !
                                FTSH
+ ] [ - ] [ +
I 11793 02500
I
  
```

NETWORK: 00394 SEGMENT: 008 COOLING TOWER FAN - FA 901

```

+ ] [ + [ ] - ] \ - ..... - ( ) - FAIL-TO-START TIMER - LO
I 00562! 00150 11794                                05680 (FTSTL)
I ! [ ]
I + [ T.01 -
I 46162
I
+ ] [ + [ ] - ] \ - ..... - ( ) - FAIL-TO-START-TIMER-HI
I 00563! 00400 11793                                05681 (FTSTH)
I ! [ ]
I + [ T0.1 -
I 46163
I
  
```

NETWORK: 00395 SEGMENT: 008

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
REV	E	SHEET	169

NETWORK: 00396 SEGMENT: 008

 * EMPTY NETWORK *

NETWORK: 00397 SEGMENT: 008 COOLING TOWER FAN - FA 902

```

I
I
I
+-]P[+-] \ [ - ..... -( )- START COMMAND - LOW SPEED
I 00565! 06060                               01811
I      !
+-] [ +
I 01811
I
+-] [ + [ ] ..... -( )- PULSE TIMER
I 01811! 00100                               06060
I      ! [ ]
I      +-[T.01-
I      46067
I
+-] [ - ..... -( )- RUN LITE - LOW SPEED
I 11800 ZS 213L                               02338  ZI 213L
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV E	SHEET 170	

NETWORK: 00398 SEGMENT: 008 COOLING TOWER FAN - FA 902

```

I
I
I
+---]P[+---]N[---] [---.....---( )- START COMMAND - HI SPEED
I 00566! 06061 11800 ZS 213L 01810
I
I
+---] [+---
I 01810
I
+---] [+---[ ]-.....---( )- PULSE TIMER
I 01810! 03000 06061
I ! [ ]
I +---[T.01-
I 46068
I
+---] [---.....---( )- RUN - HI SPEED - ZI 213H
I 11799 ZS 213H 02340
I
  
```

NETWORK: 00399 SEGMENT: 008 COOLING TOWER FAN - FA 902

```

+---]N[---]N[---]
I 00566 00565!
I
+---]N[---]N[---]
I 00565 00566!
I
+---] [+---]N[---]N[---].....---( )- STOP PULSE
I 01812 06062 02500 01812
I
+---] [+---[ ]-.....---( )- PULSE TIMER
I 01812! 00100 06062
I ! [ ]
I +---[T.01-
I 46089
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE A	FSCM NO. 18355	DRAWING NO. 1044789
	MCDONNELL DOUGLAS	REV E	SHEET 171

NETWORK: 00400 SEGMENT: 008 COOLING TOWER FAN - FA 902

```

+ ] [ - ..... ( )- OVERLOAD LITE - I1H 213
I 11804 02334
I
+ ] [ - ..... ( )- OIL LOW LITE - L1L 213
I 11803 02335
I
+ ] [ - ..... ( )- VIBRATION LITE - X1H 213
I 11802 02336
I
+ ] [ - ] [ +
I 11800 02500!
I !
FTSTL
+ ] [ - ] \ + ] \ - ] \ - ] \ - ..... ( )- KEYSTROKE - LO - HS 213L
I 00565 01810 11802 11803 11804 05689 00565
I
+ ] [ - + ] \ - ] \ - ] \ - ] \ - ..... ( )- KEYSTROKE - HI - HS 213H
I 00566 ! 11802 11803 11804 05690 01811 00566
I ! FTSTH
+ ] [ - ] [ +
I 11799 02500
I
  
```

NETWORK: 00401 SEGMENT: 008 COOLING TOWER FAN - FA 902

```

+ ] [ + [ ] - ] \ - ..... ( )- FAIL-TO-START TIMER - LOW
I 00565! 00150 11800 05689 (FTSTL)
I ! [ ]
I + [T.01-
I 46172
I
+ ] [ + [ ] - ] \ - ..... ( )- FAIL-TO-START TIMER - HI
I 00566! 00400 11799 05690 (FTSTH)
I ! [ ]
I + [T0.1-
I 46173
I
  
```

NETWORK: 00402 SEGMENT: 008

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
MCDONNELL DOUGLAS	REV	E	SHEET 172

NETWORK: 00403 SEGMENT: 008

 * EMPTY NETWORK *

NETWORK: 00404 SEGMENT: 008 MOV 243

```

+---]P[+---]\[---].....---( )- OPEN COMMAND
I 00585! 06078                                01860
I      !
+---] [+---]
I 01860!
I      !
+---]P[+---]
I 05724
I
+---] [+---[ ]-.....---( )- PULSE TIMER
I 01860! 00100                                06078
I      ! [ ]
I      +---[T.01-      +---[ ]-.....---( )- PUMP ON - OPEN MOV 243
I      46098          ! 01000                05724
I                      ! [ ]
+---] [+---]-----+---[T.01-
I 11827 ZS 242B      46228
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
	REV	E	SHEET 173

NETWORK: 00405 SEGMENT: 008 MOV 243

---()- CLOSE COMMAND
 I 00585! 06079 02500 01861

I 06039! ISH242 - P906 OVERLOAD OR P905 OVERLOAD WITH
 MOV 222 OPEN

I 00589! CLOSE MOV ON P906 STOP

---()- PULSE TIMER
 I 01861 ! 00100 06079

I ! []
 I +[T.01-
 I 46100

I 11829 02500!

---()- KEYSTROKE - HS 243
 I 00585 02500 01861 06080 00585

NETWORK: 00406 SEGMENT: 008 MOV 243

ZS242B
 ---()- FAIL TO OPEN
 I 11827! 01500 06080

I ! []
 I +[T.01-
 I 46099

---()- OPEN LITE
 I 11829 02364 ZI 243

---()- CLOSE LITE
 I 11828 02365

---()- OVERLOAD LITE - IIH 243
 I 11830 02366

NETWORK: 00407 SEGMENT: 008

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

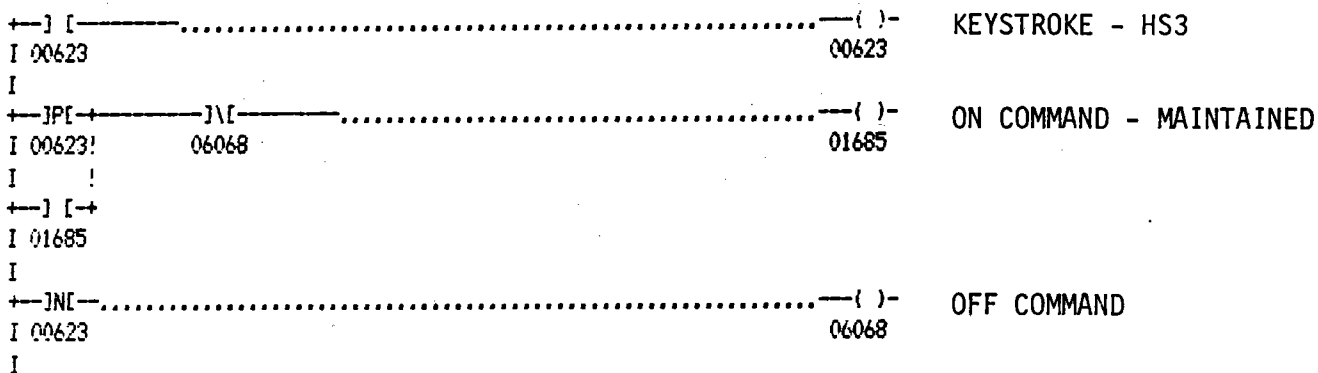
SHEET

174

NETWORK: 00408 SEGMENT: 008

 * EMPTY NETWORK *

NETWORK: 00409 SEGMENT: 008 SIREN



***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

F

SHEET

175

NETWORK: 00410 SEGMENT: 008 *Strobe Lite*

```

+-] [---] [---] ..... ( )- KEYSTROKE - HS 4
I 00624 00624
I
+-] [---] [---] ..... ( )- ON COMMAND (MAINTAINED)
I 00624 01686 TOWER STROBE
I
+-] [---] [---] ..... ( )- ON COMMAND (MAINTAINED)
I 00624 01816 GATE STROBE
I
  
```

NETWORK: 00411 SEGMENT: 008

 * EMPTY NETWORK *

NETWORK: 00412 SEGMENT: 008 *Front Gate Control*

```

+-] [---] [---] [---] ..... ( )- KEYSTROKE - HS51A (OPEN)
I 00626 01815 00626
I
+-] [---] [---] [---] ..... ( )- OPEN COMMAND
I 00626! 05728 01813
I !
+-] [---] [---] [---] ..... ( )- PULSE TIMER
I 01813 +-[ ]- 05728
I ! 00100
I ! [ ]
+-] [---] [---] [---] [---] ..... ( )- PULSE TIMER
I 01813 46212
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

175.1

NETWORK: 00413 SEGMENT: 008 FRONT GATE CONTROL

```

+ ] [ --- ] \ [ --- ..... --- ( ) - Keystroke - HS51B
I 00625 01815 00625
I
+ ] P [ + ] \ [ --- ..... --- ( ) - CLOSE COMMAND
I 00625! 05731 01814
I !
+ ] [ + [ ] - ..... --- ( ) - PULSE TIMER
I 01814 ! 00100 05731
I ! [ ]
+ ] [ --- + [ T.01 -
I 01814 46213
I
  
```

NETWORK: 00414 SEGMENT: 008 *Front Gate Control*

```

+ ] [ --- ] \ [ --- ..... --- ( ) - KEYSTROKE HS52 - STOP
I 00627 05729 00627
I
I
I
I
I
+ ] [ + [ ] - ..... --- ( ) - PULSE TIMER
I ! 00100 05729
I ! [ ]
+ ] [ --- + [ T.01 -
I 01815 46211
I
+ ] N [ + ] \ [ --- ..... --- ( ) - STOP COMMAND
I 00627! 05729 01815
I !
+ ] [ +
I 01815!
I !
+ ] P [ +
I 00627
I
  
```

NETWORK: 00415 SEGMENT: 008

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
MCDONNELL DOUGLAS	REV	SHEET	
	G	175.2	

NETWORK: 00416 SEGMENT: 008 *EPGS status (OCS)*

+] [..... () - EPGS OFF
I 11540 02210 (OCS CONSOLE)
I
+] [..... () - EPGS ON
I 11540 02209 (OCS CONSOLE)
I

NETWORK: 00417 SEGMENT: 008

* EMPTY NETWORK *

***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS 

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV G	SHEET 175.3	

NETWORK: 00418 SEGMENT: 008 TSS FEEDWATER PUMP - P 903

```

+---]P[---] [-----[ ]-
I 11985 02049 00000
I [ ]
I -[ ]-
I 00000
I [ ]
I -[SUB -
I 44201
I
  
```

```

+---]P[-----[ ]-.....-( )- AUTO LITE
I 11985 00001 02049
I [ ]
  
```

```

+---]N[---]N[---]UCTR.....-( )- MANUAL LITE
I 02500 01416 44201 02050
I
  
```

***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
	REV	E	SHEET 176

NETWORK: 00419 SEGMENT: 008 *TSS Feedwater Pump - P903*

```

+-----[ ]-
I 40403
I [ ]
I -[ ]+
I 44202!
I [ ]!
I -[SUB +-----+ [ ]-.....-( )- LO NPSH
I 44203 ! 00100 04201
I ! [ ]
I +-[T.01-
I 44204
I
+ ] [------( )- LO NPSH - PDIL86B
I 04201 02096
I
  
```

NETWORK: 00420 SEGMENT: 008 *TSS Feedwater Pump - P903*

```

+ ] [ + ] [-----] \ [-----] \ [------( )- KEYSTROKE - HS50A
I 02049! 10065 04208 01416 00065
I !
I + ] \ [------( )- SET 65 to "ON" FOLLOWING
I 11593 00128 AUTO SELECTIONS
I
+ ] [------( )-
I 00065 04202
I
+ ] [------( )- START COMMAND
I 04202 04203
I
+ ] [-----] [ + [ ]-.....-( )- FAIL TO START TIMER
I 00065 11593! 00200 04208 (FTST)
I ! [ ]
I +-[T.01-
I 44207
I
  
```

***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV G	SHEET 177	

NETWORK: 00421 SEGMENT: 008 TSS FEEDWATER PUMP - P903
 ISH50

START COMMAND
 I 02049 04203! 11575! 04201 04204 04206 02500 01415

I 11986 02050
 I 01415

PULSE TIMER
 I 01415! 00100 04204

I +[T.01- 44205

NETWORK: 00422 SEGMENT: 008 TSS FEEDWATER PUMP - P903

MEMORY FOR STOP/RESET
 I 04204 04205

I 04205 04206

DEDICATED PB STOP TO RESET AFTER ANY STOP COMMAND
 I 11987 04206

I 04206 04205

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

D

SHEET

178

NETWORK: 00425 SEGMENT: 008

* EMPTY NETWORK *

NETWORK: 00426 SEGMENT: 008

* EMPTY NETWORK *

NETWORK: 00427 SEGMENT: 009 CIRC WATER PUMP - P 905

```
+-]PE-] [-+-] [-] \ [-] [-.....- ( )- START COMMAND
I 00588 02181! 11819 05606 05619 01880
I      !
+-] [-] [-+
I 12053 02182!
I      !
+-] [-+-----+
I 01880
I
+-] [+--[ ]-.....- ( )- PULSE TIMER
I 01880! 00100 05606
I      ! [ ]
I      +-[T.01-
I      46105
I
```

***** END OF LISTING *****

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HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

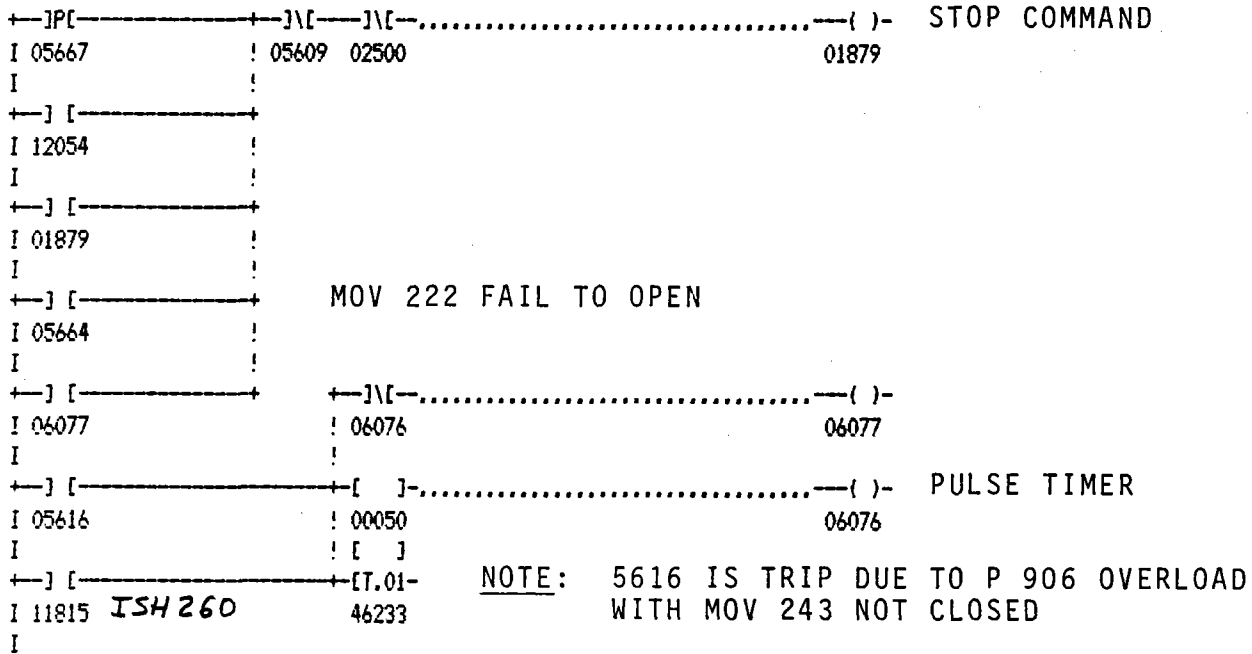
REV

F

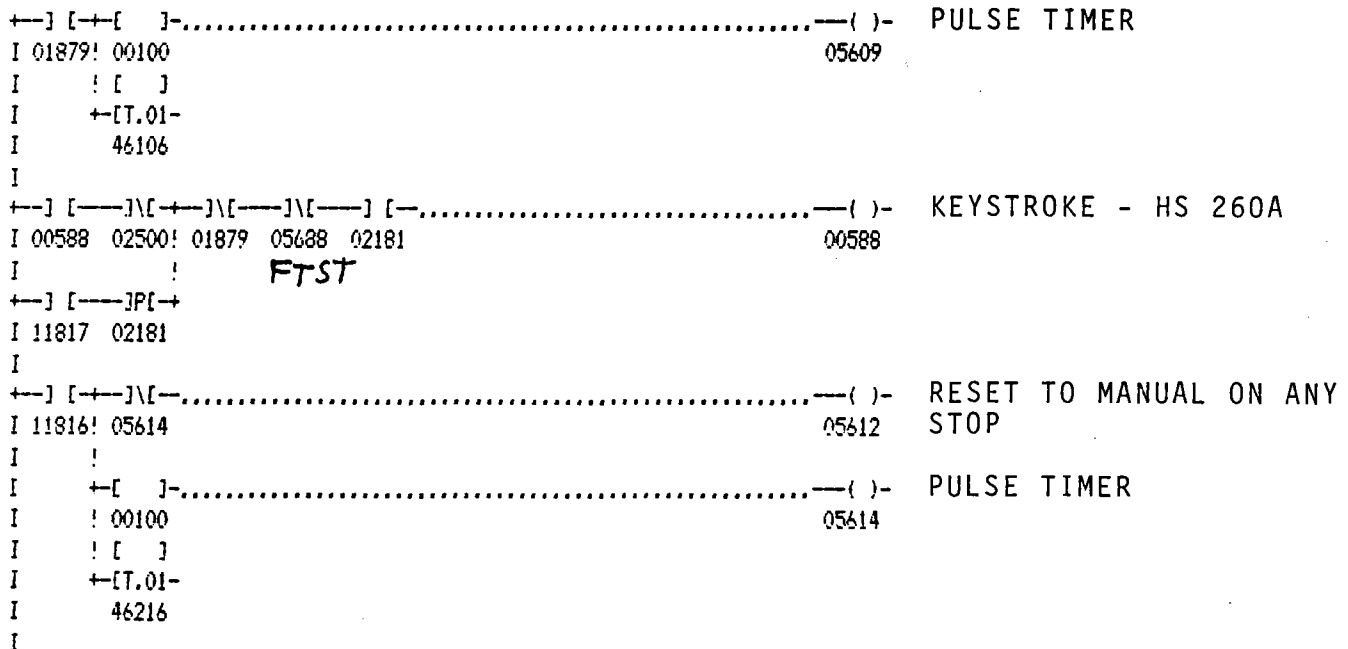
SHEET

180

NETWORK: 00428 SEGMENT: 009 CIRC WATER PUMP P905



NETWORK: 00429 SEGMENT: 009 CIRC WATER PUMP P 905



MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV G	SHEET 181	

NETWORK: 00430 SEGMENT: 009 CIRC WATER PUMP - P905

```

+JP[ ] [ ]-
I 12052 02181 00000
I [ ]
I -[ ]-
I 00000
I [ ]
I -[SUB -
I 46104
I
  
```

```

+JP[ ] [ ]-.....-( )- AUTO
I 12052 00001 02181
I [ ]
  
```

```

+J\ [ ] [ ]-[UCTR-.....-( )- MANUAL
I 02500 05612 46104 02182
I
  
```

NETWORK: 00431 SEGMENT: 009 CIRC WATER PUMP - P 905

```

+ ] [ ]-.....-( )- RUN LITE - ZI260
I 11817 02358
I
  
```

```

+ ] [ ]-.....-( )- OVERLOAD - IIH260
I 11815 02221
I
  
```

```

+ ] [ ]-.....-( )- DEDICATED PB RUN LITE
I 11817 02183
I
  
```

```

+ ] [ ]-.....-( )- DEDICATED PB STOP LITE
I 11816 02184
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

E

SHEET

182

NETWORK: 00432 SEGMENT: 009 CIRC WATER PUMP - P905

```

+ ] [ + ] [ - ..... ( ) - DEDICATED PB STOP TO RESET
I 12054! 11816 05619 AFTER ANY STOP COMMAND
I !
+ ] [ + ]
I 05619
I
+ ] [ + [ ] - ] [ - ..... ( ) - FAIL - TO - START - TIMER
I 00588! 00330 11817 05688 (FTST)
I ! [ ]
I + [ T.01 -
I 46171
I
  
```

NETWORK: 00433 SEGMENT: 009 CIRC WATER PUMP - P-905
 ISH260

```

+ ] [ + [ ] - ] [ - ..... ( ) - TRIP P906 - OVERLOAD
I 11815! 00600 11818 05611
I ! [ ]
I + [ T.01 -
I 46108
I
+ ] [ - + [ ] - ] [ - ..... ( ) - TIME DELAY
I 11817 ! 02000 11819 ZS 260B 05610
I ZS 222A ! [ ]
I + [ T.01 -
I 46107
I
+ ] [ + ] [ - ..... ( ) - TRIP P905 - MOV 222
I 05610! 05665 05664 FAIL TO OPEN
I !
I + [ ] - ..... ( ) - PULSE TIMER
I ! 00100 05665
I ! [ ]
I + [ T.01 -
I 46230
I
  
```

MCDONNELL DOUGLAS AERONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV E	SHEET 183	

NETWORK: 00434 SEGMENT: 009 CIRC WATER PUMP P905

←-J\[-] [-+]

I 00588 02181!

I

I

I

I

I

I

I

+[-]-.....-(-)-

STOP COMMAND FOR
KEYSTROKE STOP

05667

! 00025

! []

+[-T1.0-

46231

NETWORK: 00435 SEGMENT: 009

* EMPTY NETWORK *

NETWORK: 00436 SEGMENT: 009

* EMPTY NETWORK *

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HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

G

SHEET

184

NETWORK: 00437 SEGMENT: 009 MOV 222

←]P[←]V[-----] ()- OPEN COMMAND
 I 00586! 05603 01844

I !
 ←]P[→
 I 05601!
 I !
 ←] [→
 I 01844
 I

←] [→ []-..... ()- PULSE TIMER
 I 01844! 00100 05603

I ! []
 I ←[T.01-
 I 46101
 I

←] [→ []-..... ()- PUMP ON - OPEN MOV 222
 I 11817! 01000 05601 AUTOMATICALLY

I ! []
 I ←[T.01-
 I 46102
 I

NETWORK: 00438 SEGMENT: 009 MOV 222

←]N[←]V[←]V[-----] ()- CLOSED COMMAND
 I 00586! 05602 02500 01845

I !
 ←] [→
 I 01845!
 I !
 ←] [→
 I 06077! ISH-260 - CLOSE ON P905 OVERLOAD
 I !

←]V[←]V[←]V[-----] ()- PULSE TIMER
 I 00588 ! 00100 05602

NOTE: 588 WILL CLOSE MOV 222 ON P905 STOP

I ! []
 I ←[T.01-
 I 46103
 I

←] [→ [] [→
 I 11819 02500!
 I !

←] [→]V[←]V[←]V[-----] ()- KEYSTROKE - HS-222
 I 00586 02500 01845 06067 00586

I FTOT

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

G

SHEET

185

NETWORK: 00439 SEGMENT: 009 MOV 222
 ZS 260B

+-] [+-[]-.....-()- FAIL-TO-OPEN-TIMER
 I 11817! 01500 06067 (FTOT)
 I ! []
 I +-[T.01-
 I 46215
 I

+-] \/-.....-()- OPEN LITE
 I 11819 02367 ZI222
 I

+-] \/-.....-()- CLOSE LITE
 I 11818 02368
 I

+-] [-.....-()- OVERLOAD LITE - I1H222
 I 11820 02363
 I

NETWORK: 00440 SEGMENT: 009

 * EMPTY NETWORK *

NETWORK: 00441 SEGMENT: 009 CIRC WATER PUMP - P906

+-] P[---] [+-] [---] \/-.....-()- START COMMAND
 I 00589 02185! 11829 05613 05618 01876
 I !

+-] [---] [-+
 I 12056 02186!
 I !
 +-] [-----+
 I 01876
 I

+-] [+-[]-.....-()- PULSE TIMER
 I 01876! 00100 05613
 I ! []
 I +-[T.01-
 I 46110
 I

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 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

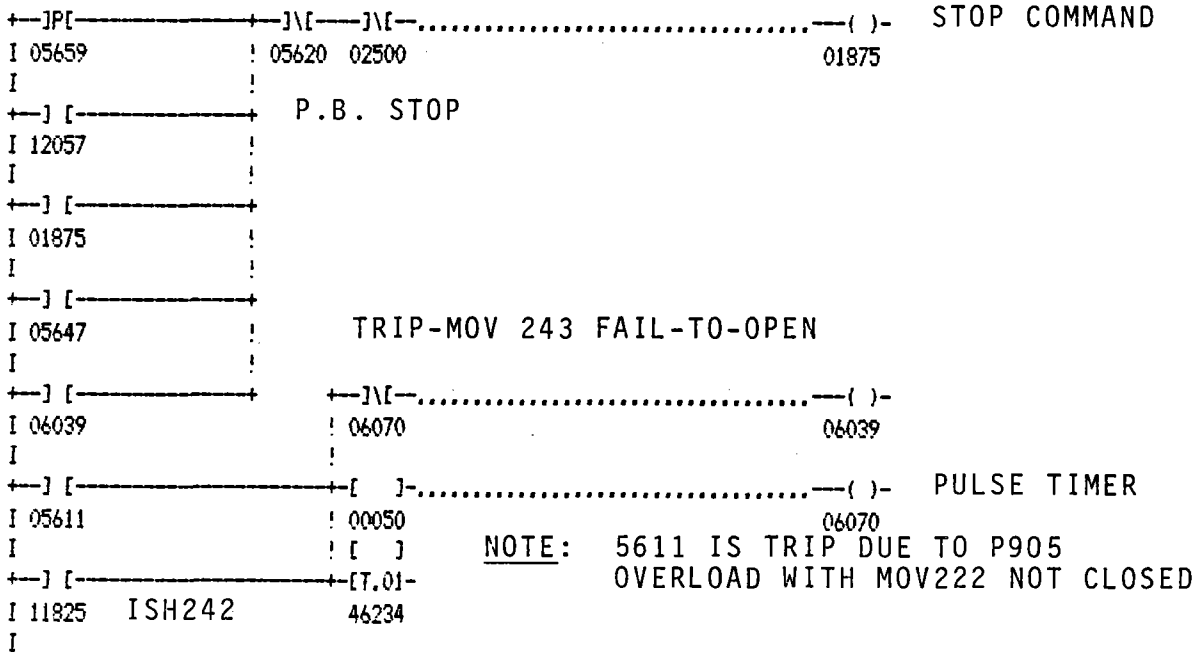
REV

E

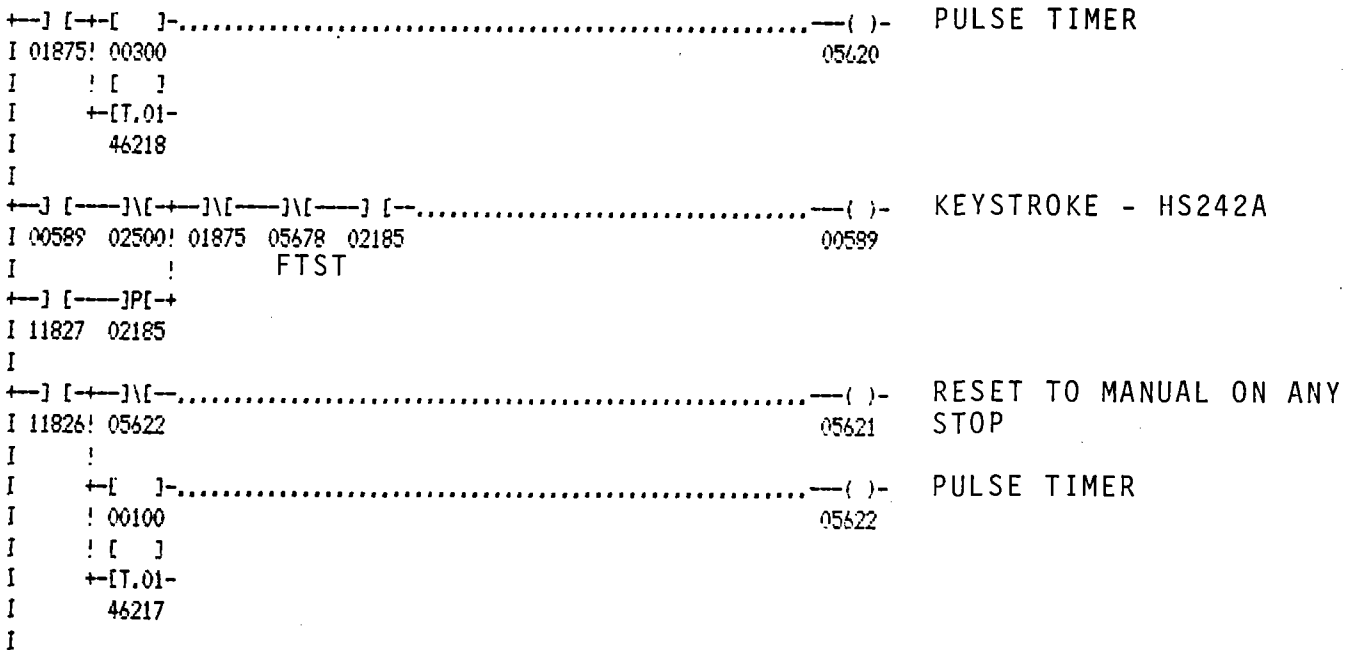
SHEET

186

NETWORK: 00442 SEGMENT: 009 CIRC WATER PUMP - P906



NETWORK: 00443 SEGMENT: 009 CIRC WATER PUMP P-906



MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1044789
REV G	SHEET 187	

NETWORK: 00444 SEGMENT: 009 CIRC WATER PUMP - P906

```

+---]P[---] [-----[ ]-
I 12055 02185 00000
I [ ]
I -[ ]-
I 00000
I [ ]
I -[SUB -
I 46109
I
  
```

```

+---]P[-----[ ]-.....-( )- AUTO
I 12055 00001 02185
I [ ]
  
```

```

+---]V[---]V[---]UCTR-.....-( )- MANUAL
I 02500 05621 46109 02186
I
  
```

NETWORK: 00445 SEGMENT: 009 CIRC WATER PUMP - P906

```

+---] [-----.....-( )- RUN LITE - ZS242
I 11827 02224
I
  
```

```

+---] [-----.....-( )- OVERLOAD - IIH242
I 11825 02227
I
  
```

```

+---] [-----.....-( )- DEDICATED PB RUN LITE
I 11827 02187
I
  
```

```

+---] [-----.....-( )- DEDICATED PB STOP LITE
I 11826 02188
I
  
```

```

+---] [-----.....-( )- BREAKER IN TEST ZY242
I 11840 02240
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

E

SHEET

188

NETWORK: 00446 SEGMENT: 009 CIRC WATER PUMP - P906

```

+ ] [ + ] \ [ - ..... ( ) - DEDICATED PB STOP TO RESET
I 12057! 11828 05618 AFTER ANY STOP COMMAND
I !
+ ] [ +
I 05618
I
+ ] [ + [ ] - ] \ [ - ..... ( ) - FAIL-TO-START-TIMER
I 00589! 00330 11827 05678 (FTST)
I ! [ ]
I + [ T.01 -
I 46161
I
  
```

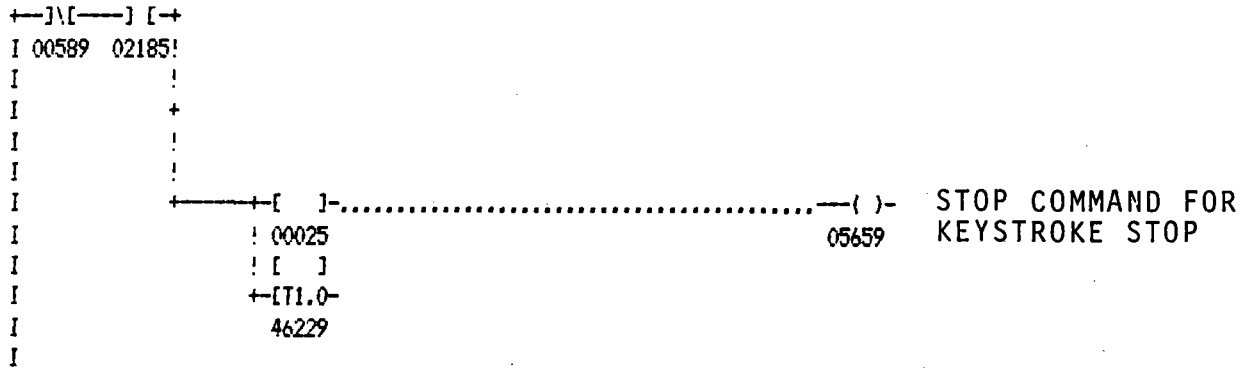
NETWORK: 00447 SEGMENT: 009 CIRC WATER PUMP - P906

```

+ ] [ + [ ] - ] \ [ - ..... ( ) - TRIP P-905 - OVERLOAD
I 11825! 00600 11828 ZS-243A 05616
I ! [ ]
I + [ T.01 -
I 46111
I
+ ..... ] [ + [ ] - ] \ [ - ..... ( ) - TIME DELAY
I 11827! 02000 11829 ZS-243B 05617
I ZS242A! [ ]
I + [ T.01 -
I 46112
I
+ ] [ + ] \ [ - ..... ( ) - TRIP P906 - MOV 243
I 05617! 05652 05647 FAIL-TO-OPEN
I !
I + [ ] - ..... ( ) - PULSE TIMER
I ! 00100 05652
I ! [ ]
I + [ T.01 -
I 46219
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
MCDONNELL DOUGLAS	REV	E	SHEET 189

NETWORK: 00448 SEGMENT: 009 CIRC WATER PUMP - P906



NETWORK: 00449 SEGMENT: 009

* EMPTY NETWORK *

NETWORK: 00450 SEGMENT: 009

* EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. ID44789
REV G	SHEET 190	

NETWORK: 00451 SEGMENT: 009 EXHAUSTER PUMP - P-941

```

+---]P[+---]N[-----.....( )- FV 958 OPEN
I 00575! 05725 01527 (MAINTAINED ON)
I !
+---] [+ +[ ]-.....( )- PULSE TIMER
I 01527 ! 00650 05734
I ! [ ]
+---] [-----+T.01-
I 06069 48108
I
I +[ ]-]N[-----.....( )- CLOSE FV 958
I ! 00600 05734 05725
I ! [ ]
+---] [-----+T.01-
I 06069 46093
I
+---] [-----.....( )- RUN LITE - ZI 958
I 11586 02357
I
+---] [-----.....( )- OVERLOAD - I1H958
I 11585 02351
I
  
```

NETWORK: 00452 SEGMENT: 009 EXHAUSTER PUMPS - P-941

```

+---]P[-----+.....( )- PUMP START (MAINTAINED)
I 05726 ! 01589
I !
+---] [---]N[+
I 01589 06069
I
+---]N[-----+.....( )- STOP COMMAND
I 00575 ! 06069
I !
+---] [-----]N[+ +[ ]-.....( )- START DELAY TIMER
I 06069 01589 ! 00600 05726
I ! [ ]
+---] [-----+T.01-
I 01527 46205
I
+---] [---]N[---]N[-----.....( )- KEYSTROKE - HS659
I 00575 02500 11585 00575
I
  
```

***** END OF LISTING *****

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV G	SHEET 191	

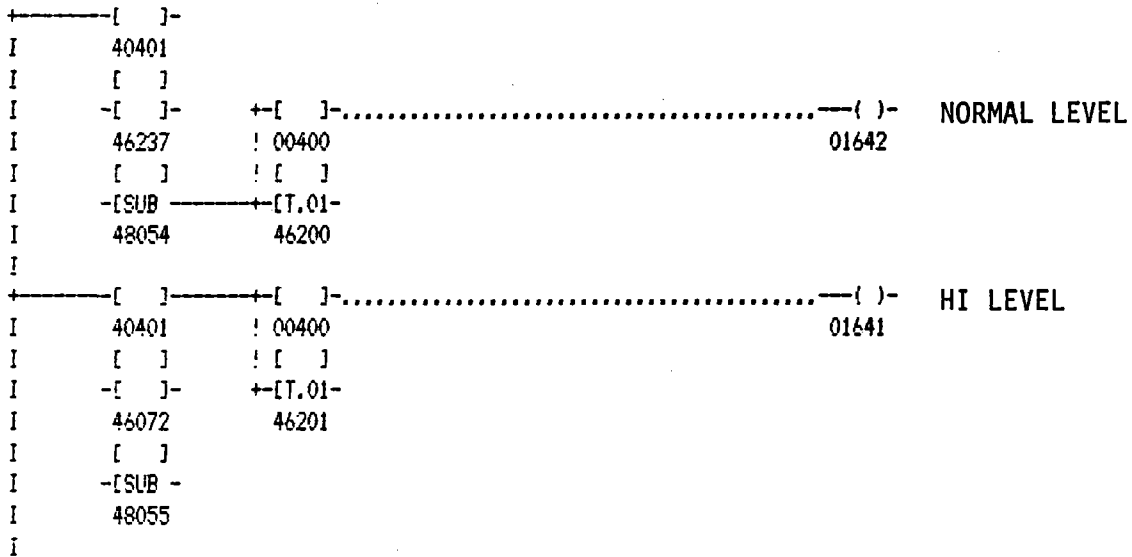
NETWORK: 00453 SEGMENT: 009

 * EMPTY NETWORK *

NETWORK: 00454

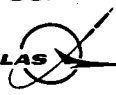
SEGMENT: 009

First Point Heater Level Switch

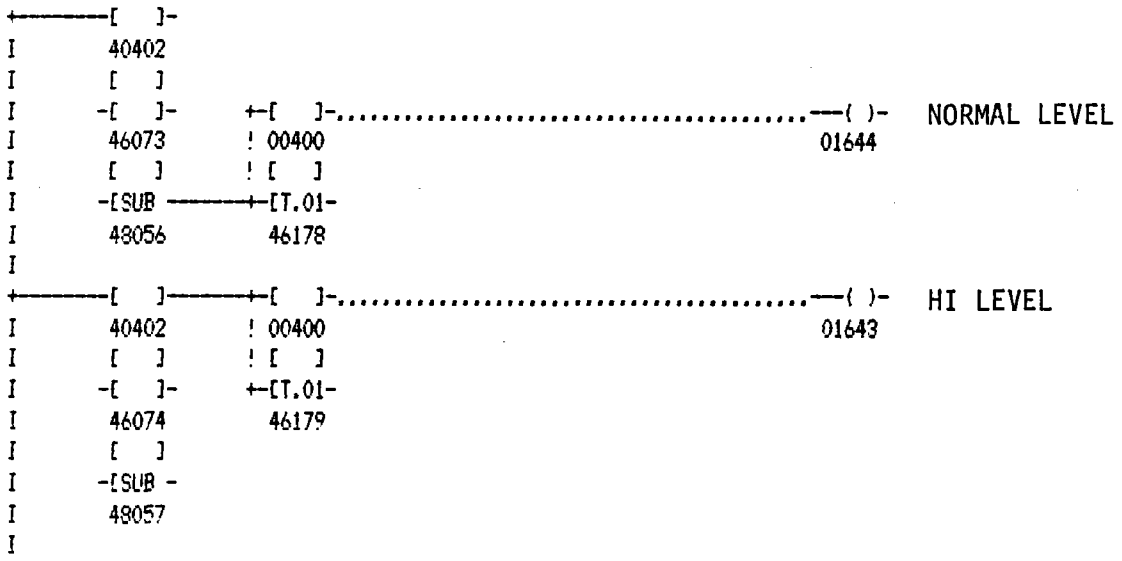


NETWORK: 00455 SEGMENT: 009

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS 	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
REV	G	SHEET	192

NETWORK: 00456 SEGMENT: 009 *Second Point Heater Level Switch*

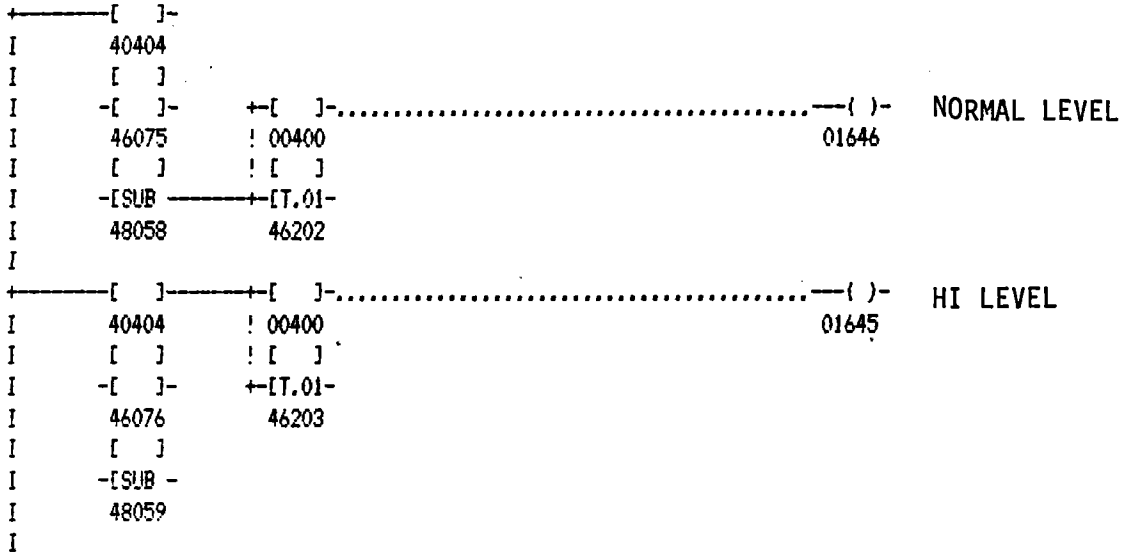


NETWORK: 00457 SEGMENT: 009

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
	REV	SHEET	
	G	193	

NETWORK: 00458 SEGMENT: 009 *Deaerator Level Switch*



NETWORK: 00459 SEGMENT: 009

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

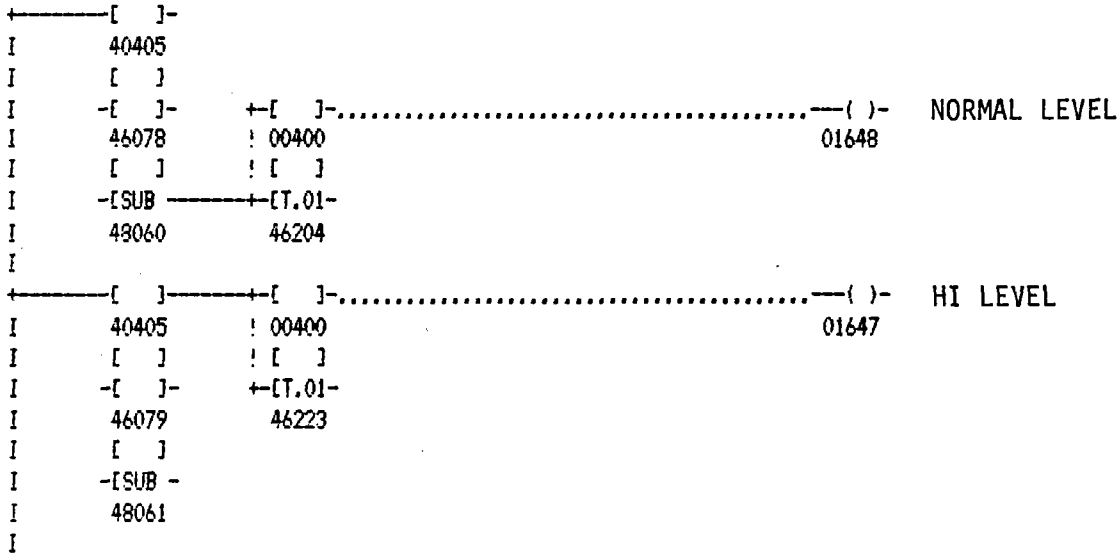
REV

G

SHEET

194

NETWORK: 00460 SEGMENT: 009 *Forth Point Heater Level Switch*



NETWORK: 00461 SEGMENT: 009

 * EMPTY NETWORK *

***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV G	SHEET 195	

NETWORK: 00462 SEGMENT: 009 MOV 624

TRIP

```

+ ] [-----] [ + ] [-----] ..... ( )- OPEN COMMAND
I 00556 11540 01642! 06051 01553
I
+ ] [-----]
I 01553
I
+ ] [-----] + [ ]- ..... ( )- PULSE TIMER
I 01553 ! 00100 06051
I ! [ ]
I + [T.01-
I 46082
I
+ ] [-----] ..... ( )- OPEN LITE
I 11539 02309 ZI 624
I
+ ] [-----] ..... ( )- CLOSE LITE
I 11538 02310
I
+ ] [-----] ..... ( )- IIH 624
I 11537 02311
I
  
```

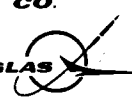
NETWORK: 00463 SEGMENT: 009 MOV 624

```

+ ] [-----] + ] [-----] [ ] [-----] ..... ( )- CLOSE COMMAND
I 00556 ! 06050 02500 01554
I
+ ] [-----]
I 11540 ! TURBINE TRIP
I
+ ] [-----] + [ ]- ..... ( )- PULSE TIMER
I 01641 HI LEVEL ! 00150 06050
I ! ! [ ]
+ ] [-----] [ + ] [-----] + [T.01-
I 01554 46206
I
+ ] [-----] [ + ] [-----]
I 11538 !
I !
+ ] [-----] [ + ] [-----]
I 11539 02500! !
I ! !
+ ] [-----] [ + ] [-----] [ + ] [-----] ..... ( )- KEYSTROKE - HS 624
I 00556 02500 01642 01554 00556
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS



SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

F

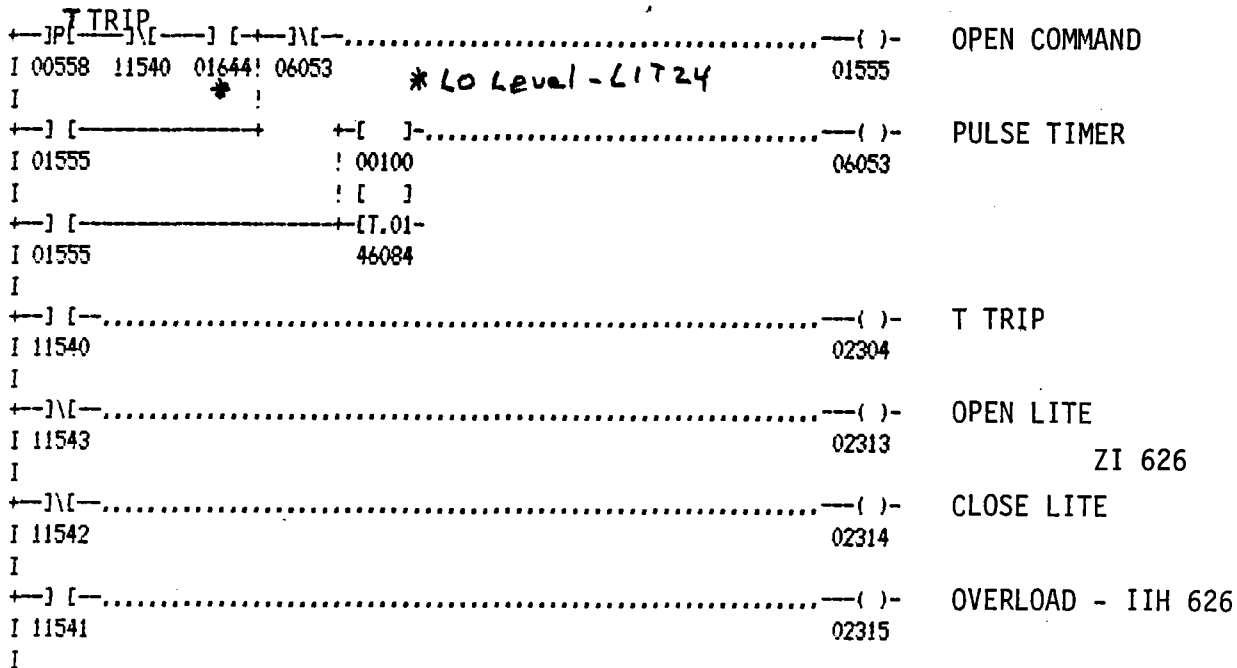
SHEET

196

NETWORK: 00464 SEGMENT: 009

 * EMPTY NETWORK *

NETWORK: 00465 SEGMENT: 009 MOV 626



SIZE	FSCM NO.	DRAWING NO.
A	18355	1D44789
REV	F	SHEET
		197

NETWORK: 00466 SEGMENT: 009 MOV 626

←JNC-----JNC-----JNC-----.....()- CLOSE COMMAND
 I 00558 ! 06052 02500 01556
 I !

←] [-----+
 I 11540 ! TURBINE TRIP
 I !

←-----] [+ +-[]-.....()- PULSE TIMER
 I 01556! ! 00150 06052
 I ! ! []

←JPI-----+-----[T.01-
 I 01643 46177
 I

←-----] [-----+
 I 11542 !
 I !

←JNC-----] [+ +
 I 11543 02500! !
 I ! !

←] [-----JNC-----] [+-----JNC-----.....()- KEYSTROKE - HS 626
 I 00558 02500 01644 01556 00558
 I

NOTE: 1643 = **HI** LEVEL - LIT24
 1644 = **LO** LEVEL - LIT 24

NETWORK: 00467 SEGMENT: 009

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

ID44789

REV

F

SHEET

198

NETWORK: 00468 SEGMENT: 009 MOV 628
TTRIP

←]PI←]N[←] [←]N[.....()- OPEN COMMAND
 I 00559 11540 01646! 06055 01557

I *!
 * Lo Level - LIT83

←] [.....()- PULSE TIMER
 I 01557 ! 00100 06055
 I ! []
 I +IT.01-
 I 46207

←]N[.....()- OPEN LITE
 I 11546 02317 ZI 628

←]N[.....()- CLOSE LITE
 I 11545 02318

←] [.....()-
 I 11544 02319

NETWORK: 00469 SEGMENT: 009 MOV 628

←]N[←]N[←]N[.....()- CLOSE COMMAND
 I 00559 ! 06054 02500 01558

←] [.....()- PULSE TIMER
 I 11540 ! TTRIP 06054
 I ! ! []
 I +IT.01-
 I 01645 ** 46083 ** Hi Level - LIT83

←]N[←]N[←]N[.....()- KEYSTROKE - HS628
 I 11546 02500!
 I ! !
 I 11546 02500!
 I ! !
 I 00559 02500 01646 01558 00559

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SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

F

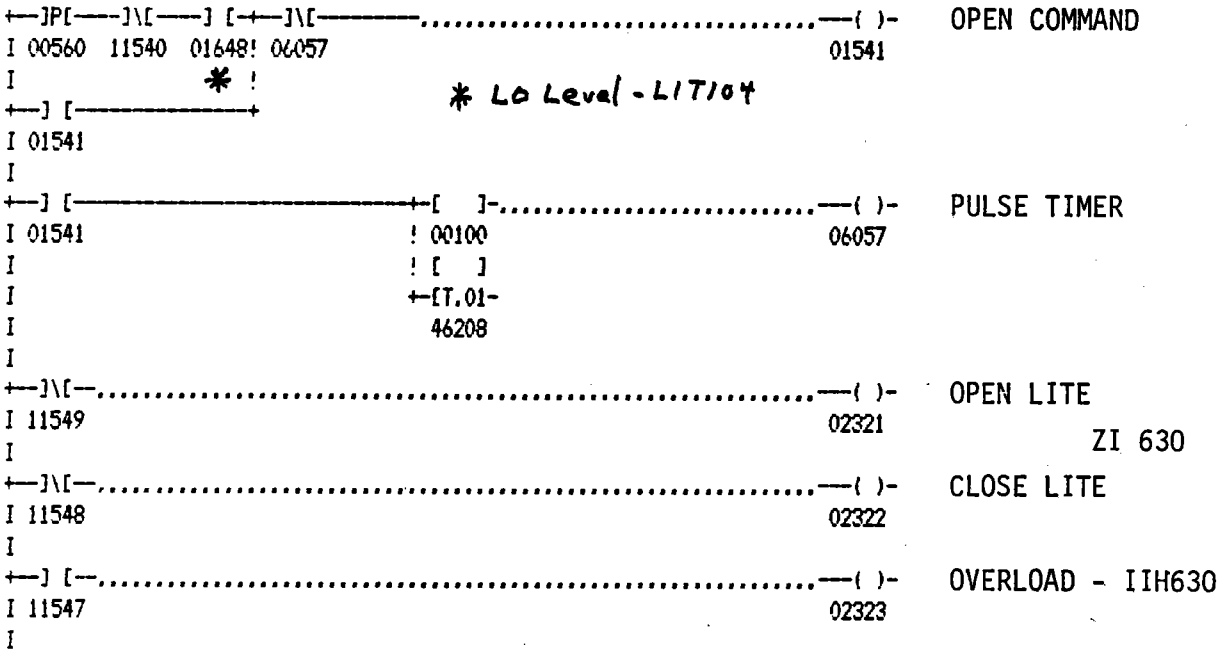
SHEET

199

NETWORK: 00470 SEGMENT: 009

 * EMPTY NETWORK *

NETWORK: 00471 SEGMENT: 009 MOV 630
TRIP



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18355

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1D44789

REV

F

SHEET

200

NETWORK: 00472 SEGMENT: 009 MOV 630

```

+ ]N[-----+ ]\[-+ ]\[-+ ]\[-.....-( )- CLOSE COMMAND
I 00560      ! 06056 02500                      01542
I
+ ] [-----+
I 11540      !
I
+-----] [+ +-[ ]-.....-( )- PULSE TIMER
I          01542! ! 00150                      06056
I          ! ! [ ]
+ ]P[-----+ ]T.01-
I 01647      46209          * 1647 = HI LEVEL - LIT104
I
+-----] [-----+
I          11548      !
I          !
+ ]\[-+ ] [+ +
I 11549 02500! !
I          ! !
+ ] [-----] \[-+ ] [+ ]\[-.....-( )- KEYSTROKE - HS630
I 00560 02500 01648 01542                      00560
I
  
```

NETWORK: 00473 SEGMENT: 009

 * EMPTY NETWORK *

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	A	18355	ID44789
REV	G	SHEET	201

NETWORK: 00474 SEGMENT: 009 P 934 - AMMONIA PUMP

←-] [-----]-()- KEYSTROKE - HS 450A
I 00573 ! 00573
I !
←-] [-----] [→-]
I 11729 02500
I
←-] [-----] [→-]-()- STOP RELAY - MAINTAINED ON TO
I 00573 11729 01442 ALLOW START/RUN
I
←-] [-----]-()- RUN LITE ZI 450
I 11592 02355
I

NETWORK: 00475 SEGMENT: 009

* EMPTY NETWORK *

NETWORK: 00476 SEGMENT: 009

* EMPTY NETWORK *

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

D

SHEET

202

NETWORK: 00477 SEGMENT: 009 COOLING TOWER ACID PUMP (P912)

FTST

```

+ ] [ - ] \ [ - ] \ [ - ] \ [ - ..... ( ) - KEYSTROKES - HS207
I 00571 02500 05714 06066 00571
I
+ ] P [ - - - - - + ] [ + ..... ( ) - START COMMAND
I 00571 ! ! 11817! ZS260B-CIRC WATER PUMP 01846 (MAINTAINED)
I ! ! ! P905 ON
+ ] [ - ] \ [ + + ] [ +
I 01846 06066 11827 ZS242B - CIRC WATER
I PUMP P906 ON
+ ] N [ - - - - - + ] \ [ - ..... ( ) - STOP COMMAND
I 00571 ! 05715 06066
I !
+ ] [ - - - - - ] \ [ +
I 06066 01846!
I !
+ ] P [ - - - - - +
I 02501
I
+ ] [ - ..... ( ) - RUN LITE - ZI207
I 11821 ZS207B 02352
I
  
```

NETWORK: 00478 SEGMENT: 009 COOLING TOWER ACID PUMP (P912)

```

+ ] [ + [ ] - ] \ [ - ..... ( ) - FAIL TO START TIMER
I 00571! 00150 11821 05714 (FTST)
I ! [ ]
I + - [ T . 01 -
I 46198
I
+ ] [ + [ ] - ..... ( ) - PULSE TIMER
I 06066! 00100 05715
I ! [ ]
I + - [ T . 01 -
I 46199
I
  
```

NETWORK: 00479 SEGMENT: 009

 * EMPTY NETWORK *

***** END OF LISTING *****

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SIZE A	FSCM NO. 18355	DRAWING NO. 1044789
REV G	SHEET 203	

NETWORK: 00480 SEGMENT: 009 P 9333 - HYDRAZINE PUMP

```

+ ] [-----+ ..... ( )- KEYSTROKE - HS449
I 00572 ! 00572
I !
+ ] [---] [+
I 11729 02500
I
+ ] [---] [--- ..... ( )- STOP RELAY - MAINTAINED ON TO
I 00572 11729 01441 ALLOW START/RUN
I
+ ] [--- ..... ( )- RUN LITE ZI 449
I 11591 02354
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00572 J I 00480

NETWORK: 00481 SEGMENT: 009

 * EMPTY NETWORK *

NETWORK: 00482 SEGMENT: 009

 * EMPTY NETWORK *

***** END OF LISTING *****

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SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

E

SHEET

204

NETWORK: 00483 SEGMENT: 010 P 938A

```

+---]N[+---]N[---]N[---].....---( )- STOP COMMAND
I 00579! 06073 02500 01684
I !
+---] [+
I 01684
I
+---] [+---[ ]-.....---( )- PULSE TIMER
I 01684! 00100 06073
I ! [ ]
I +---[T.01-
I 46097
I
+---] [---].....---( )- RUN LITE
I 11734 02362
I
+---] [---]N[---].....---( )- HS 858A
I 00577 01684 00577
I
+---] [---].....---( )- AUTO/MANUAL
I 00577 01681
I
  
```

NETWORK: 00484 SEGMENT: 010 P 938A

```

+---]N[+---]N[---].....---( )- START COMMAND
I 00579! 06074 01683
I !
+---] [+ +---[ ]-.....---( )- PULSE TIMER
I 01683 ! 00100 06074
I ! [ ]
+---] [---]N[---]N[---].....---( )- KEYSTROKE - HS858A
I 00579 02500 01684 05711 00579
I FTST
+---] [+---[ ]-]N[---].....---( )- FAIL-TO-START-TIMER
I 00579! 00150 11734 05711 (FTST)
I ! [ ]
I +---[T.01-
I 46195
I
  
```

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SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV F	SHEET 205	

NETWORK: 00485 SEGMENT: 010

 * EMPTY NETWORK *

NETWORK: 00486 SEGMENT: 010 HYDRAULIC OIL PUMP P-938B

```

+---]N[+---]N[---]N[---].....---( )--- STOP COMMAND
I 00578! 06072 02500 01688
I !
+---] [+ +---] ]-.....---( )--- PULSE TIMER
I 01688 ! 00100 06072
I ! [ ]
+---] [-----+ [T.01- +---] ]---]N[---].....---( )--- FAIL-TO-START-TIMER
I 01688 46095 ! 00150 11731 05686 (FTST)
I ! [ ]
+---] [-----+ [T.01-
I 00578 46168
I
+---] [---]N[---].....---( )--- KEYSTROKE - HS856AM
I 00580 01688 00580 (AUTO/MANUAL)
I
+---] [---].....---( )--- AUTO/MANUAL
I 00580 01682
I

```

NETWORK: 00487 SEGMENT: 010 HYDRAULIC OIL PUMP P-938B

```

+---]P[+---]N[---].....---( )--- START COMMAND
I 00578! 06071 01687
I !
+---] [+
I 01687
I
+---] [+ +---] ]-.....---( )--- PULSE TIMER
I 01687! 00100 06071
I ! [ ]
I +---] ]- +---] ]- +---] ]-
I 46094
I
+---] [---].....---( )--- RUN LITE - ZI 856
I 11731 02361
I
+---] [---]N[+---]N[---]N[---].....---( )--- KEYSTROKE - HS856A
I 00578 02500! 01688 05686 00578
I !
+---] [---] [+
I 11731 02500
I

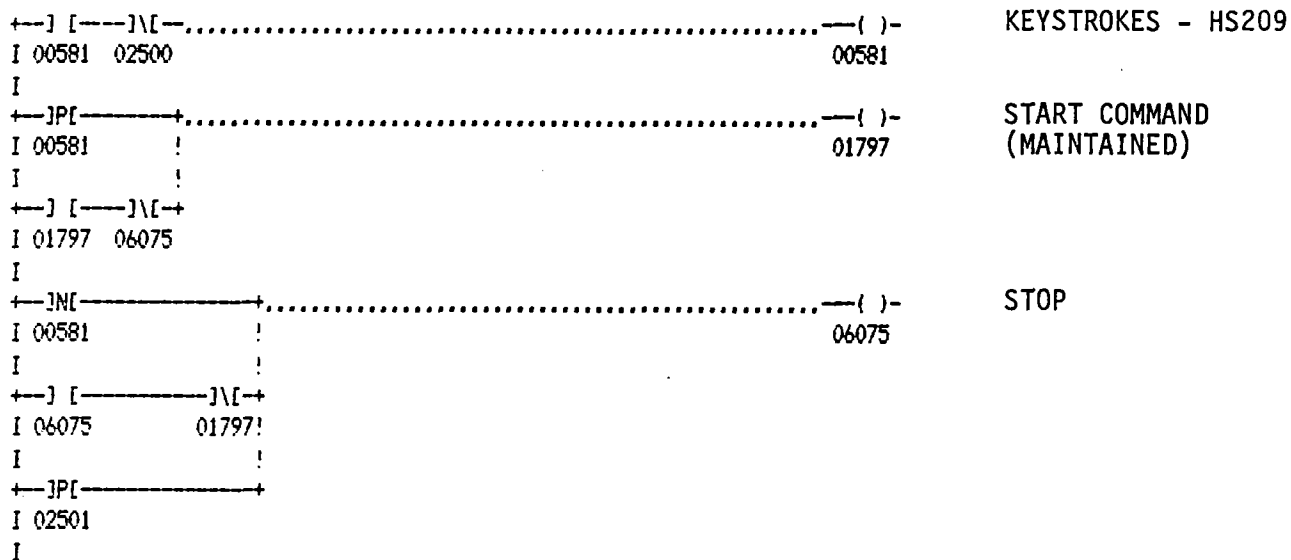
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
REV	F	SHEET	206

NETWORK: 00488 SEGMENT: 010

 * EMPTY NETWORK *

NETWORK: 00489 SEGMENT: 010 *Keep Wet Timer*



NETWORK: 00490 SEGMENT: 010

 * EMPTY NETWORK *

NETWORK: 00491 SEGMENT: 010

 * EMPTY NETWORK *

NETWORK: 00492 SEGMENT: 010

 * EMPTY NETWORK *

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MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV G	SHEET 207	

NETWORK: 00493 SEGMENT: 010

 * EMPTY NETWORK *

NETWORK: 00494 SEGMENT: 010

 * EMPTY NETWORK *

NETWORK: 00495 SEGMENT: 010 BREAKER HS 5003 B01-3

```

+---]N[+---]N[---]N[---].....---( )- OPEN COMMAND
I 00593! 05635 02500                                01491
I      !
+---] [+---]
I 01491
I
+---] [+---[ ]-.....---( )- PULSE TIMER
I 01491! 00100                                       05635
I      ! [ ]
I      +---[T.01-   +---[ ]---]N[---].....---( )- FAIL TO CLOSE TIMER
I      46123       ! 00150 11490                       05696
I      ! [ ]
+---] [-----+---[T.01-
I 00593       46181
I
  
```

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SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV D	SHEET 208	

NETWORK: 00496 SEGMENT: 010 BREAKER HS 5003 B01-3

```

+-] [---] [+
I 11490 02500!
I
+-] [---] \ [+ ] \ [---] \ [---] ..... ( )- KEYSTROKE HS 5003
I 00593 02500 01491 05696 00593
I
+-] P [+ ] \ [---] ..... ( )- CLOSE COMMAND
I 00593! 05634 01492
I
+-] [+ ] ..... ( )- PULSE TIMER
I 01492! 00100 05634
I ! [ ]
I +-IT.01-
I 46122
I
+-] [---] ..... ( )- CLOSED LITE ZI 5003
I 11490 02245
I
  
```

NETWORK: 00497 SEGMENT: 010

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
REV	D		SHEET 209

NETWORK: 00498 SEGMENT: 010 BREAKER HS 5004 A01-4
 HS 5004

```

+---]N[---]N[---]N[---].....-( )- OPEN COMMAND
I 00594! 05637 02500 01493
I ! 2500
+---] [+
I 01493
I
+---] [+ [ ] .....-( )- PULSE TIMER
I 01493! 00100 05637
I ! [ ]
I +---[T.01- + [ ]---]N[---].....-( )- FAIL TO CLOSE TIMER
I 46125 ! 00150 11491 05697 (FTCT)
I ! [ ] ZS 5004A
+---] [-----+---[T.01-
I 00594 46182
I
  
```


NETWORK: 00499 SEGMENT: 010 BREAKER HS 5004 A01-4

```

+---] [---] [+
I 11491 02500!
I !
+---] [---]N[---]N[---]N[---].....-( )- KEYSTROKE HS 5004
I 00594 02500 01493 05697 00594
I
+---]N[---]N[---].....-( )- CLOSE COMMAND
I 00594! 05636 01494
I !
+---] [+
I 01494
I
+---] [+ [ ] .....-( )- PULSE TIMER
I 01494! 00100 05636
I ! [ ]
I +---[T.01-
I 46124
I
+---] [---].....-( )- CLOSED LITE - ZI 5004
I 11491 02249
I
  
```

NETWORK: 00500 SEGMENT: 010

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. 	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
	REV	D	SHEET 210

NETWORK: 00501 SEGMENT: 010

* EMPTY NETWORK *

NETWORK: 00502 SEGMENT: 010

* EMPTY NETWORK *

NETWORK: 00503 SEGMENT: 010

* EMPTY NETWORK *

NETWORK: 00504 SEGMENT: 010

* EMPTY NETWORK *

NETWORK: 00505 SEGMENT: 010

* EMPTY NETWORK *

NETWORK: 00506 SEGMENT: 010

* EMPTY NETWORK *

NETWORK: 00507 SEGMENT: 010

* EMPTY NETWORK *

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

E

SHEET

211

NETWORK: 00508 SEGMENT: 010

 * EMPTY NETWORK *

NETWORK: 00509 SEGMENT: 010

 * EMPTY NETWORK *

NETWORK: 00510 SEGMENT: 010 *Main 4KV Cooling Tower Transformer Breaker*

←]NE←]N[←]N[←].....—()— OPEN COMMAND
 I 00595! 05640 02500 01505

I !
 ←] [→
 I 01505
 I

←] [←[]-----—()— PULSE TIMER
 I 01505! 00100 05640

I ! []
 I ←[T.01- +[]---]N[←].....—()— FAIL TO CLOSE TIMER
 I 46128 ! 00150 11493 05698 (FTCT)

I ! []
 ←] [-----←[T.01-
 I 00595 46183
 I

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SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

G

SHEET

212

NETWORK: 00511 SEGMENT: 010 MAIN 4KV COOLING TOWER TRANSFORMERS BREAKER

```

+ ] [---] [+
I 11493 02500!
I      !
+ ] [---] \ [+ ] \ [---] \ [---] ..... --- ( )-      KEYSTROKE - HS5006
I 00595 02500 01505 05698                                00595
I
+ ] P [+ ] \ [---] ..... FTCT ..... --- ( )-      CLOSE COMMAND
I 00595! 05639                                           01506
I      !
+ ] [+
I 01506
I
+ ] [+ [ ] ..... --- ( )-      PULSE TIMER
I 01506! 00100                                           05639
I      ! [ ]
I      + [T.01-
I      46127
I
+ ] [---] ..... --- ( )-      CLOSED LITE - ZI5006
I 11493 ZS5006A                                           02253
I
  
```

NETWORK: 00512 SEGMENT: 010

 * EMPTY NETWORK *

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	A	18355	1D44789
REV	G	SHEET	213

NETWORK: 00513 SEGMENT: 010 BREAKER A01-7

```

+---] IN[---] N[---] N[---] .....---( )- OPEN COMMAND
I 00597! 05642 02500 01507
I !
+---] [+
I 01507
I
+---] [+ [ ] .....---( )- PULSE TIMER
I 01507! 00100 05642
I ! [ ]
I +---[T.01- + [ ]---] N[---] .....---( )- FAIL TO CLOSE TIMER
I 46130 ! 00150 11494 05700 (FTCT)
I ! [ ]
+---] [+ .....---[T.01-
I 00597 46184
I
  
```

NETWORK: 00514 SEGMENT: 010 BREAKER A01-7

```

+---] [+ ] [+
I 11494 02500!
I ! FTCT
+---] [+ ] N[---] N[---] N[---] .....---( )- KEYSTROKE HS 5007
I 00597 02500 01507 05700 00597
I
+---] IN[---] N[---] .....---( )- CLOSE COMMAND
I 00597! 05641 01508
I !
+---] [+
I 01508
I
+---] [+ [ ] .....---( )- PULSE TIMER
I 01508! 00100 05641
I ! [ ]
I +---[T.01-
I 46129
I
+---] [+ .....---( )- CLOSED LITE - ZI 5007
I 11494 ZS 5007A 02257
I
  
```

NETWORK: 00515 SEGMENT: 010

 * EMPTY NETWORK *

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MCDONNELL DOUGLAS

SIZE

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18355

DRAWING NO.

1D44789

REV

F

SHEET

214

NETWORK: 00516 SEGMENT: 010

* EMPTY NETWORK *

NETWORK: 00517 SEGMENT: 010

* EMPTY NETWORK *

NETWORK: 00518 SEGMENT: 010

* EMPTY NETWORK *

NETWORK: 00519 SEGMENT: 010

* EMPTY NETWORK *

NETWORK: 00520 SEGMENT: 010

* EMPTY NETWORK *

NETWORK: 00521 SEGMENT: 010

* EMPTY NETWORK *

NETWORK: 00522 SEGMENT: 010

* EMPTY NETWORK *

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

E

SHEET

215

NETWORK: 00526 SEGMENT: 010 A01-8

```

+ ] [ - ] [ +
I 11495 02500!
I
+ ] [ - ] [ + ] [ - ] [ + ] [ - ] ..... ( )- KEYSTROKE - HS 5008
I 00596 02500 01509 05701 00596
I
+ ] [ - ] [ + ] [ - ] ..... ( )- CLOSE COMMAND (PULSE)
I 00596! 05643 01510
I
+ ] [ +
I 01510
I
+ ] [ + [ ] ..... ( )- PULSE TIMER
I 01510! 00100 05643
I ! [ ]
I + [ T.01 -
I 46131
I
+ ] [ - ..... ( )- CLOSE LITE ZI 5008
I 11495 02261
I
  
```

NETWORK: 00527 SEGMENT: 010

 * EMPTY NETWORK *

***** END OF LISTING *****

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	A	18355	1D44789
	REV	G	SHEET 217

NETWORK: 00528 SEGMENT: 010 BREAKER A01-9

```

+---]N[---]N[---]N[---].....--( )- OPEN COMMAND
I 00598! 05646 02500 01511
I !
+---] [+
I 01511
I
+---] [+ [ ] .....--( )- PULSE TIMER
I 01511! 00100 05646
I ! [ ]
I +[T.01- + [ ]---]N[---].....--( )- FAIL TO CLOSE TIMER (FTCT)
I 46135 ! 00150 11496 ZS 5009A 05702
I ! [ ]
+---] [+ [T.01-
I 00598 46186
I
  
```

NETWORK: 00529 SEGMENT: 010 BREAKER A01-9

```

+---] [+---] [+
I 11496 02500!
I ! FTCT
+---] [+---]N[---]N[---]N[---].....--( )- KEYSTROKE - HS 5009
I 00598 02500 01511 05702 00598
I
+---]N[---]N[---].....--( )- CLOSE COMMAND
I 00598! 05645 01512
I !
+---] [+
I 01512
I
+---] [+ [ ] .....--( )- PULSE TIMER
I 01512! 00100 05645
I ! [ ]
I +[T.01-
I 46134
I
+---] [+.....--( )- CLOSED LITE - ZI 5009
I 11496 ZS 5009A 02265
I
  
```

NETWORK: 00530 SEGMENT: 010

 * EMPTY NETWORK *

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MCDONNELL DOUGLAS

SIZE

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18355

DRAWING NO.

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REV

D

SHEET

218

NETWORK: 00531 SEGMENT: 010 BREAKER HS 5010 A01-10

```

HS 5010
+-]N[+-]N[---]N[---.....--( )- OPEN COMMAND
I 00599! 05649 02500 01601
I !
+-] [+
I 01601
I
+-] [+ [ ]-----.....--( )- PULSE TIMER
I 01601! 00100 05649
I ! [ ]
I +[T.01- + [ ]---]N[---.....--( )- FAIL TO CLOSE TIMER (FTCT)
I 46137 ! 00150 11497 05703
I ! [ ] ZS 5010A
+-] [-----+ [T.01-
I 00599 46187
I
  
```

NETWORK: 00532 SEGMENT: 010 BREAKER HS 5010 A01-10

```

+-] [---] [+
I 11497 02500!
I !
+-] [---]N[+-]N[---]N[---.....--( )- KEYSTROKE - HS 5010
I 00599 02500 01601 05703 00599
I
+-]P[+-]N[---.....--( )- CLOSE COMMAND
I 00599! 05648 01602
I !
+-] [+
I 01602
I
+-] [+ [ ]-----.....--( )- PULSE TIMER
I 01602! 00100 05648
I ! [ ]
I +[T.01-
I 46136
I
+-] [---.....--( )- CLOSED LITE
I 11497 02268 ZI 5010
I
  
```

NETWORK: 00533 SEGMENT: 010

 * EMPTY NETWORK *

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MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV D	SHEET 219	

NETWORK: 00534 SEGMENT: 010 BREAKER HS 5020 B01-2

```

+---]NE+---]N[---]N[---.....( )- OPEN COMMAND
I 00600! 05651 02500 01603
I
+---] [+
I 01603
I
+---] [+ [ ]-----.....( )- PULSE TIMER
I 01603! 00100 05651
I ! [ ]
I +[T.01- + [ ]---]N[---.....( )- FAIL TO CLOSE TIMER (FTCT)
I 46139 ! 00150 11498 05704
I ! [ ]
+---] [+-----+ [T.01-
I 00600 46188
I
  
```

NETWORK: 00535 SEGMENT: 010 BREAKER HS 5020 B01-2

```

+---] [+---] [+
I 11498 02500!
I
+---] [+---]N[+---]N[---]N[---.....( )- KEYSTROKE
I 00600 02500 01603 05704 00600
I
+---]N[+---]N[---.....( )- CLOSE COMMAND
I 00600! 05650 01604
I
+---] [+
I 01604
I
+---] [+ [ ]-----.....( )- PULSE TIMER
I 01604! 00100 05650
I ! [ ]
I +[T.01-
I 46138
I
+---] [+.....( )- CLOSED LITE - ZI 5020
I 11498 02277
I
  
```

NETWORK: 00536 SEGMENT: 010

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

D

SHEET

220

NETWORK: 00540 SEGMENT: 011 BREAKER HS 5022 B01-7
HS 5022

```

+-]N[-+-]N[-.....-( )- OPEN COMMAND
I 00602! 05656 02500 01607
I !
+-] [+
I 01607
I
+-] [+ [ ]------( )- PULSE TIMER
I 01607! 00100 05656
I ! [ ]
I +-[T.01- + [ ]-]N[-.....-( )- FAIL TO CLOSE TIMER (FTCT)
I 46143 ! 00150 11500 05706
I ! [ ] ZS 5022A
+-] [+-----+ [T.01-
I 00602 46191
I

```

NETWORK: 00541 SEGMENT: 011 BREAKER HS 5022 B01-7

```

+-] [+ ] [+
I 11500 02500!
I !
+-] [+ ]N[-+-]N[-]N[-.....-( )- KEYSTROKE HS 5022
I 00602 02500 01607 05706 00602
I
+-]N[-+-]N[-.....-( )- CLOSE COMMAND
I 00602! 05655 01608
I !
+-] [+
I 01608
I
+-] [+ [ ]------( )- PULSE TIMER
I 01608! 00100 05655
I ! [ ]
I +-[T.01-
I 46142
I
+-] [+.....-( )- CLOSED LITE - ZI 5022
I 11500 02283
I

```

NETWORK: 00542 SEGMENT: 011

* EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
MCDONNELL DOUGLAS	REV	D	SHEET
			222

NETWORK: 00543 SEGMENT: 011 BREAKER HS 5025 B01-10

```

+---]N[+---]N[---]N[---].....( )- OPEN COMMAND
I 00603! 05658 02500 01618
I !
+---] [+
I 01618
I
+---] [+ [ ] .....( )- PULSE TIMER
I 01618! 00100 05658
I ! [ ]
I +---[T.01-
I 46145
I
+---] [+ [ ] .....( )- FAIL TO CLOSE TIMER (FTCT)
I 00603! 00150 11501 05683
I ! [ ]
I +---[T.01-
I 46165
I
  
```

NETWORK: 00544 SEGMENT: 011 BREAKER HS 5025 B01-10

```

+---] [---] [+
I 11501 02500!
I !
+---] [---]N[+---]N[---]N[---].....( )- KEYSTROKE HS 5025
I 00603 02500 01618 05683 00603
I
+---]N[+---]N[---].....( )- CLOSE COMMAND
I 00603! 05657 01617
I !
+---] [+
I 01617
I
+---] [+ [ ] .....( )- PULSE TIMER
I 01617! 00100 05657
I ! [ ]
I +---[T.01-
I 46144
I
+---] [---].....( )- CLOSED LITE ZI 5025
I 11501 02286
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1044789
REV E	SHEET 223	

NETWORK: 00545 SEGMENT: 011

 * EMPTY NETWORK *

NETWORK: 00546 SEGMENT: 011 MAIN 480V COOLING TOWER BREAKER

```

+--] [+
I 11832! ISH5015
I
+--] [+ ] [+ ] [+ ] [+ ] ..... ( )- OPEN COMMAND
I 00604! 05661 02500 01873
I
+--] [+ ] [+ ] [+ ] ..... ( )- PULSE TIMER
I 01873 ! 00100 05661
I ! [ ]
+--] [+ ] [+ ] [+ ] [+ ] [+ ] [+ ] [+ ] ..... ( )- FAIL-TO-CLOSE-TIMER
I 01873 46147 -[T.01- ! 00150 11834 05707 (FTCT)
I ! [ ]
+--] [+ ] [+ ] [+ ] [+ ] ..... ( )- TEST POSITION ZY5015
I 11835 ZY5015 02292
I
+--] [+ ] [+ ] [+ ] [+ ] ..... ( )- OVERLOAD I1H5015
I 11832 ISH5015 02295
I

```

**** END OF LISTING ****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

224

NETWORK: 00547 SEGMENT: 011 MAIN 480V COOLING TOWER BREAKER

```

+--] [---] [+
I 11834 02500!
I      !      FTCT
+--] [---]\[+--]\[---]\[---]----- ( )- KEYSTROKE - HS5015
I 00604 02500 01873 05707                      00604
I
+--]P[+--]\[---]----- ( )- CLOSE COMMAND
I 00604! 05660                      01874
I      !
+--] [+ +[ ]------ ( )- PULSE TIMER
I 01874      ! 00100                      05660
I      ! [ ]
+--] [-----+ [T.01-
I 01874      46146
I
+--] [----- ( )- CLOSE LITE - ZI5015
I 11834                      02289
I
+--] [----- ( )- BUS - EIL5015
I 11824 ESL5015                      02312 UNDERVOLTAGE
I
  
```

NETWORK: 00548 SEGMENT: 011 MAIN 480V COOLING TOWER BREAKER

```

+--] [----- ( )- ISI5015 -
I 11831      IS5015                      02316
I
  
```

***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

G

SHEET

225

NETWORK: 00549 SEGMENT: 011 480 V ADMINISTRATION BUILDING BREAKER

```

+-] [---] [+
I 11838 02500!
I
+-] [---] \ [+ ] \ [---] \ [---] .....-( )- KEYSTROKE - HS5017
I 00606 02500 01831 05708 00606
I FTCT
+-] P[+-] \ [---] .....-( )- CLOSE COMMAND
I 00606! 05662 01832
I !
+-] [+ ] .....-( )- PULSE TIMER
I 01832 ! 00100 05662
I ! [ ]
+-] [---] +[T.01- ] \ [---] .....-( )- FAIL-TO-CLOSE-TIMER
I 01832 46149 ! 00150 11838 05708 (FTCT)
I ! [ ]
+-] [---] +[T.01-
I 00606 46193
I
+-] [---] .....-( )- close lite - ZI5017
I 11838 02298
I
  
```

NETWORK: 00550 SEGMENT: 011 480V ADMINISTRATION BUILDING BREAKER

```

+-] N[+-] \ [---] \ [---] .....-( )- OPEN COMMAND
I 00606! 05663 02500 01831
I !
+-] [+ ] .....-( )- PULSE TIMER
I 11836 ! 00100 05663
I ! [ ]
+-] [---] +[T.01-
I 01831 46150
I
+-] [---] .....-( )- TEST POSITIONS ZY5017
I 11839 ZY5017 02308
I
+-] [---] .....-( )- OVERLOAD - I1H5017
I 11836 I1H5017 02301
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

G

SHEET

226

NETWORK: 00551 SEGMENT: 011 A01 - BUSS VOLTAGE

```

+-----+ [ ]-      + [ ]-.....- ( )-  BUSS UNDERVOLTAGE
I      ! 40407      ! 00100                05741
I      ! [ ]        ! [ ]
I      + [ ]-      + [T.01]-
I      46242        ! 46243
I      [ ]          !
I      - [SUB -----+
I      48130
I
  
```

NETWORK: 00552 SEGMENT: 011 BREAKER A01-2

```

+---] [ + ] [ ]-.....- ( )-  OPEN COMMAND
I 00592! 05633 02500                01489
I !
+---] [ +
I 01489
I
+---] [ + [ ]-.....- ( )-  PULSE TIMER
I 01489! 00100                05633
I ! [ ]
I + [T.01]-
I 46121
I
+---] [ + [ ]-.....- ( )-  FAIL TO CLOSE TIMER (FTCT)
I 00592! 00150 11489                05694
I ! [ ]
I + [T.01]-
I 46176
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
MCDONNELL DOUGLAS	REV	SHEET	
	F	227	

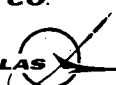
NETWORK: 00553 SEGMENT: 011 Breaker A01-2

```

+ ] [---] [+
I 11489 02500!
I      !
+ ] [---] \ [+ ] \ [---] \ [---] ..... ( )- Keystroke- HS5001
I 00592 02500 01489 05694 00592
I      FTCT
+ ] P [+ ] \ [---] ..... ( )-
I 00592! 05632 01490 close Command
I      !
+ ] [+
I 01490
I
+ ] [+ [ ] - ..... ( )- pulse timer
I 01490! 00100 05632
I      ! [ ]
I      +IT.01-
I      46120
I
+ ] [---] ..... ( )-
I 11489 02241 close Lite - ZI 5001
I
  
```

NETWORK: 00554 SEGMENT: 011 AIR COMPRESSOR - CP-902

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS 	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
REV	G	SHEET	228

NETWORK: 00555 SEGMENT: 011 AIR COMPRESSOR - CP-902

```

+---]N[---]N[---.....--( )- STOP RELAY LOGIC
I 00591! 05631 05721
I !
+---] [+
I 05721!
I !
+---]P[---
I 11484!
I !
+---] [+ +[ ]-.....--( )- PULSE TIMER
I 11488 ! 00100 05631
I ! [ ]
+---] [+---+---[T.01-
I 05721 46119
I
+---]N[---]N[---]N[---.....--( )- STOP COMMAND (MAINTAINED
I 05721 11484 11488 ISH 525A 01412 POWER)
I ISH 525
  
```

NETWORK: 00556 SEGMENT: 011 AIR COMPRESSOR - CP-902

```

+---] [+.....--( )- KEYSTROKE - HS 525
I 00591 00591
I
+---]P[---]N[---.....--( )- START COMMAND
I 00591! 05630 01411
I !
+---] [+ +[ ]-.....--( )- PULSE TIMER
I 01411 ! 00100 05630
I ! [ ]
+---] [+---+---[T.01-
I 01411 46118
I
I
I
I
+---] [+.....--( )- RUN LITE - ZI 525
I 11487 02341
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

F

SHEET

229

NETWORK: 00557 SEGMENT: 011 AIR COMPRESSOR - CP-902

```

+ ] [ + [ ] - ] \ [ - ..... - ( ) - FAIL TO START TIMER (FTST)
I 00591! 00150 11487 ZS 525A 05722
I ! [ ]
I + [ T.01 -
I 46224
I
  
```

```

+ ] [ - ..... - ( ) - OVERLOAD ALARM I1H 525
I 11484 02342
I
  
```

```

+ ] [ - ..... - ( ) - AFTERCOOLER OVERLOAD I1H 525A
I 11488 02339
I
  
```

NETWORK: 00558 SEGMENT: 011 AIR COMPRESSOR - CP-901

```

+ ] \ [ + ] \ [ - ..... - ( ) - STOP RELAY LOGIC
I 00590! 05629 05723
I !
+ ] [ +
I 05723!
I !
+ ] \ [ +
I 11483!
I !
  
```

```

+ ] [ + + [ ] - ..... - ( ) - PULSE TIMER
I 11486 ! 00100 05629
I ! [ ]
+ ] [ + [ T.01 -
I 05723 46117
I
  
```

```

+ ] \ [ - ] \ [ - ] \ [ - ..... - ( ) - STOP COMMAND (MAINTAINED POWER)
I 05723 11483 11486 01410
I
  
```

**** END OF LISTING ****
 NOTE: 11483 = ISH 524
 11486 = ISH 524A

MCDONNELL DOUGLAS AERONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
	REV	F	SHEET 230

NETWORK: 00559 SEGMENT: 011 AIR COMPRESSOR - CP-901

```

*
+-] [-----*-----] ( )- KEYSTROKE - HS 524
I 00590 00590
I
+-]P[+-] \ [-----] ( )- START COMMAND
I 00590! 05628 01409
I !
+-] [+
I 01409
I
+-] [+ [ ]-] ( )- PULSE TIMER
I 01409! 00100 05628
I ! [ ]
I +-[T,01-
I 46116
I
+-] [-----] ( )- RUN LITE - ZI 524
I 11485 02346
I ZS 524A
  
```

NETWORK: 00560 SEGMENT: 011 AIR COMPRESSOR - CP-901

```

+-] [+ [ ]-] \ [-----] ( )- FAIL TO START TIMER (FTST)
I 00590! 00150 11485 05687
I ! [ ]
I +-[T,01-
I 46170
I
+-] [-----] ( )- OVERLOAD ALARM IIH 524
I 11483 ISH 524 02347
I
+-] [-----] ( )- AFTERCOOLER OVERLOAD - IIH 524
I 11486 ISH 524A 02337
I
  
```

* TEMPORARILY DELETED BECAUSE OF ILS TRIP PROBLEMS

2500
 1410
 5687

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
REV E	SHEET 231	

NETWORK: 00561 SEGMENT: 011

* EMPTY NETWORK *

NETWORK: 00562 SEGMENT: 011

* EMPTY NETWORK *

NETWORK: 00563 SEGMENT: 011

* EMPTY NETWORK *

NETWORK: 00564 SEGMENT: 011

* EMPTY NETWORK *

NETWORK: 00565 SEGMENT: 011

* EMPTY NETWORK *

NETWORK: 00566 SEGMENT: 011

* EMPTY NETWORK *

**** END OF LISTING ****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

G

SHEET

232

NETWORK: 00563 SEGMENT: 011 AIR COMPRESSOR P-901 TRIP STATUS

```

+---] [-+---] \ | / ---.....---( )- RESET
I 10120! 02581                                00120
I      !
I      +---] [-+---] \ | / ---.....---( )-
I      ! 00300                                02581
I      ! [ ]
I      +---] [-+---] \ | / ---.....---( )-
I      48101
I
  
```

```

+---] [-+---] \ | / ---.....---( )- KEYSTORKE STOP (HS524)
I 00590! 00120                                02043
I      !
+---] [-+---] \ | / ---.....---( )-
I 02043
I
  
```

```

+---] [-+---] \ | / ---.....---( )- ISH524 TRIP
I 11483! 00120                                02044
I      !
+---] [-+---] \ | / ---.....---( )-
I 02044
I
  
```

NETWORK: 00564 SEGMENT: 011

```

+---] [-+---] \ | / ---.....---( )- ISH 524A TRIP
I 11486! 00120                                02045
I      !
+---] [-+---] \ | / ---.....---( )-
I 02045
I
  
```

NETWORK: 00565 SEGMENT: 011

 * EMPTY NETWORK *

NETWORK: 00566 SEGMENT: 011

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
MCDONNELL DOUGLAS	REV	E	SHEET 233

NETWORK: 00567 SEGMENT: 011

 * EMPTY NETWORK *

NETWORK: 00568 SEGMENT: 011 CONDENSATE PUMP P 907

```

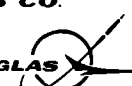
+---]P[-----] [-----] [ ]-
I 12049 02177 00000
I [ ]
I -[ ]-
I 00000
I [ ]
I -[SUB -
I 46114
I
  
```

```

+---]P[-----] [ ]-.....-( )- AUTO LITE
I 12049 00001 02177
I [ ]
  
```

```

+---]N[-----]N[---]T.01-.....-( )- MANUAL P.B. LITE
I 02500 01592 46114 02178
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS 	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
REV	E	SHEET	233.1

NETWORK: 00569 SEGMENT: 011 *Condensate Pump - P907*

```

    LIT142
    +-----[ ]-----+-----[ ]-----+-----[ ]-----+-----[ ]-----+-----[ ]-----+-----[ ]-----
    I 40409 ! 00800 ..... 05624 Level for Startup
    I [ ] ! [ ]
    I -[ ]- +[T.01-
    I 46070 46154
    I [ ]
    I -[SUB -
    I 49062
    I
    +-----[ ]-----
    I 40409 LIT142
    I [ ]
    I -[ ]- +[ ]- ..... 05625 Level Low
    I 46071 ! 00800
    I [ ] ! [ ]
    I -[SUB +[T.01-
    I 49063 46155
    I
    
```

NETWORK: 00570 SEGMENT: 011 *Condensate Pump - P907*

```

    +]P[ ] [+ ] [ ] [ ] [ ] [ ] ..... 01591 Start Command
    I 00537 02177! 05624 05623 05627
    I !
    +] [ ] [+
    I 12050 02178!
    I !
    +] [ ] +
    I 01591
    I
    +] [+ [ ]- ..... 05623 pulse timer
    I 01591! 00100
    I ! [ ]
    I +[T.01-
    I 46115
    I
    +] [ ]- ..... 02353 Run Lite - ZI 131
    I 11729
    I
    
```

**** END OF LISTING ****

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	ESCM NO.	DRAWING NO.
	A	18355	1D44789
MCDONNELL DOUGLAS		REV	SHEET
		G	234

NETWORK: 00571 SEGMENT: 011 CONDENSATE PUMP P 907

```

+ ] [-----] \ [-----] ..... ( ) - STOP COMMAND
I 11736 ! 05626 01592
I !
+ ] \ [-----] [ +
I 00537 02177!
I !
+ ] [-----+
I 12051 !
I !
+ ] [-----+
I 01592 !
I !
+ ] \ [-----+
I 05625
I
+ ] [ + [ ] ..... ( ) - PULSE TIMER
I 01592! 00100 05626
I ! [ ]
I + [ T.01-
I 46156
I
  
```

NETWORK: 00572 SEGMENT: 011 CONDENSATE PUMP P 907

```

+ ] [-----] ..... ( ) - OVERLOAD LITE I1H 131
I 11736 02328
I
+ ] [-----] ..... ( ) - P.B. START LITE
I 11729 02179
I
+ ] \ [-----] ..... ( ) - P.B. STOP LITE
I 11729 02180
I
+ ] [ + ] \ [-----] \ [-----] ..... ( ) - MANUAL DEFEAT RESET
I 12051! 05623 02328 05627
I !
+ ] [ +
I 05627
I
+ ] [ + ] \ [-----] \ [-----] \ [-----] [ + ..... ( ) - KEYSTROKE HS 131A
I 00537! 02500 01592 05673 02177 00537
I !
+ ] \ [ +
I 05675
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
MCDONNELL DOUGLAS	REV	D	SHEET 235

NETWORK: 00573 SEGMENT: 011 CONDENSATE PUMP - P 907

+] [+ [] -] \ [- () - FAIL-TO-START-TIMER
 I 00537! 00150 11729 05673 (FTST)
 I ! []
 I +[T.01-
 I 46157
 I

+] [-] P [+] \ [- () - RESET - KEYSTROKE WHEN GOING
 I 11729 02177! 05675 05674 TO AUTO WITH P907 RUNNING
 I !
 +] [- - - - - +

+] [+ [] - () - PULSE TIMER
 I 05674! 00100 05675
 I ! []
 I +[T.01-
 I 46158
 I

NETWORK: 00574 SEGMENT: 011 CONDENSATE PUMP P907 - TRIP STATUS

+] [+] \ [- () - RESET
 I 11729! 02601 02600
 I !
 I +[] - () -
 I ! 00100 02601
 I ! []
 I +[T.01-
 I 48100
 I

+] [+] \ [- () - I I H 131
 I 11736! 02600 02602
 I !

+] [+]
 I 02602
 I
 +] -] - - - - -] [+] \ [- () - Keystroke stop (H5131)
 I 00537 02177! 02600 02603
 I !
 +] - - - - -] [+]
 I 02603
 I

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1044789
REV E	SHEET 236	

NETWORK: 00575 SEGMENT: 011 CONDENSATE PUMP P-907 - TRIP STATUS

```

+ ] [ + ] \ / - ..... ( ) - DEDICATED PB STOP
I 12051! 02600 02604
I !
+ ] [ +
I 02604
I
+ ] P [ + ] \ / - ..... ( ) - LOW HOTWELL LEVEL
I 05625! 02600 02605
I !
+ ] [ +
I 02605
I
+ ] [ + ] \ / - ..... ( ) - ILS STOP COMMAND
I 01592! 02600 02606
I !
+ ] [ +
I 02606
I
  
```

NETWORK: 00576 SEGMENT: 011 NRV TRIP/RESET LOGIC

```

+ ] [ - ] \ / - ..... ( ) - HS 620 - RESET ALL NV's
I 00609 05666 00609 TO OPEN
I
+ ] P [ - ..... ( ) - TRIP ALL NV's
I 05765 ! ZI940 CLOSED 05666
I !
+ ] P [ - ..... ( ) - TRIP ALL NV's
I 05764 ! ZI943 CLOSED
I !
+ ] N [ - ..... ( ) - RESET COMMAND
I 00609 ! CLOSED ! 05763
I ! CMD !
+ ] N [ - ..... ( ) - PULSE TIMER
I 02344 GENERATOR ! 00050 05762
I OFF LINE ! [ ]
+ ] [ - ..... ( ) - GENERATOR ON LINE
I 00609 [ T.01- 46252 02344 (ZS5100 CLOSED)
I
+ ] [ - ..... ( ) - GENERATOR ON LINE
I 11502 02344 (ZS5100 CLOSED)
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE A	FSCM NO. 18355	DRAWING NO. ID44789
	REV G	SHEET 237	

NETWORK: 00579 SEGMENT: 011 NV 625

```

+-]PI+-
I 05666! TRIP ALL
I      !
+-]PI+-
I 05766! ZSL 901 - ADMISSION STOP VALVE
I      !
+-]PI+-
I 05767! ZSL 902 - INLET STOP VALVE CLOSED
I      !
+-] [-+
I 11539! MOV 624 CLOSED (SEAL)
I      !
+-]NE+-[ ]-
I 00610 00001
I      [ ]
+-]-----[UCTR]-----[ ]- OPEN COMMAND
I      46196                                01537
I
  
```

NETWORK: 00580 SEGMENT: 011

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

239

NETWORK: 00581 SEGMENT: 011 NV 627

```

+ ] [ + ] \ [ - ] [ - ] \ [ - ] \ [ - ] \ [ - ] ..... ( ) - KEYSTROKE - HS627
I 00611! 05753 01644 02500 06025 11543 00611
I !

+ ] [ + ] +-----[ ]-----+-----+-----+-----+ ..... ( ) - LV74A OR LV74B OPEN
I 05763 ! 40416 ZT74A ! ! ! ! ! 06025 OR PS699 CLOSED
I ! [ ] ! ! ! ! !

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
I 46239 ! 40415 ZT74B
I [ ] ! [ ] !

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
I -[SUB - +-[ ]- + +-[ ]-
I ! 48110 ! 46238 ! ! 00000
I ! [ ] ! ! [ ]

+ ] [ + ] +-----+-----+-----+-----+-----+-----+-----+-----+-----+
I 05761! [SUB - + +-[ ]-
I ! 48134 ! ! 00000
I ! [ ] ! ! [ ]

+ ] [ + ] +-----+-----+-----+-----+-----+-----+-----+-----+-----+
I 11742 PS699 [SUB - + +-[ ]-
I ! 46197 RESET CLOSED
I !

+ ] \ [ - ] \ [ - ] \ [ - ] \ [ - ] \ [ - ]
I 00611 05761 11543 06025
I
  
```

NETWORK: 00582 SEGMENT: 011 NV 627

```

+ ] \ [ + ]
I 06025! LV74A OR LV74B OPEN OR PS699 CLOSED
I !

+ ] \ [ + ]
I 05666! TRIP ALL
I !

+ ] \ [ + ]
I 05766! ZSL 901 - ADMISSION STOP VALVE CLOSED
I !

+ ] \ [ + ]
I 05767! ZSL 902 - INLET VALVE CLOSED
I !

+ ] [ + ]
I 11543! MOV 626 CLOSED
I !

+ ] \ [ + ] \ [ - ]
I 00611 00001
I [ ]

+ ] \ [ UCTR ..... ( ) - OPEN COMMAND
I 46197 01538
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
REV	G	SHEET 239.1	

NETWORK: 00583 SEGMENT: 011 NV 627

```

+---] \[---] \[---.....( )- KEYSTROKE RESET
I 01538! 05754 05753
I !
I +[ ]-.....( )- PULSE TIMER
I ! 00100 05754
I ! [ ]
I +[T.01-
I 46246
I
  
```

NETWORK: 00584 SEGMENT: 011 NV 629A

```

+---] [---] \[---] [---] \[---] \[---] \[---.....( )- KEYSTROKE - HS629A
I 00612! 05755 01646 02500 06043 11546 00612
I !
+---] [+ +[ ]-----.....( )- PV647B OR
I 05763 ! 40413 ZT647B ! 06043 PV647C OPEN
I ! [ ]
+-----+ [ ]- +[ ]+ +[ ]-
I 46240 ! 40414 ZT647 00000
I [ ] ! [ ] ! [ ]
I -[SUB - +[ ]- +[ ]- RESET CLOSED
I 48111 ! 46241 ! 00000
I ! [ ] ! [ ]
+-----+ [SUB - +[SUB - +---] \[---.....( )- KEYSTROKE RESET
I 48112 ! 46226 ! 05756 05755
I !
+---] P[---] \[--------] \[---+ +[ ]-.....( )- PULSE TIMER
I 00612 11546 06043 ! 00100 05756
I ! [ ]
+---] \[-----+ [T.01-
I 01559 46247
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	ESCM NO.	DRAWING NO.
	A	18355	1044789
MCDONNELL DOUGLAS	REV	G	SHEET
			240

NETWORK: 00585 SEGMENT: 011 NV 629A

←-]P[→
I 06043! PV647B OR PV647C OPEN
I !
←-]P[→
I 05666! TRIP ALL
I !
←-]P[→
I 05766! ZSL 901 - ADMISSION VALVE CLOSED
I !
←-]P[→
I 05767! ZSL 902 - INLET VALVE CLOSED
I !
←-] [→
I 11546! MOV 628 CLOSED
I !
←-]N[→-[]-
I 00612 00001
I []
←-]UCTR-.....-()- OPEN COMMAND
I 46226 01559
I

NETWORK: 00586 SEGMENT: 011

* EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

G

SHEET

240.1

NETWORK: 00587 SEGMENT: 011

```

+ ] [ + ] \ [ --- ] [ --- ] \ [ --- ] \ [ --- ] ..... ( ) - KEYSTROKE HS629B
I 00613! 05757 01646 11546 02500 00613
I ! *

+ ] [ + ] [ ] -
I 05763 OPEN ALL ! 00000 *1646 = DEARATOR LEVEL NOT HIGH - LIT83B
I ! [ ]

+ ] \ [ --- ] \ [ --- ] \ [ --- ] ..... ( ) -
I 00613 11546 05761 00000
I [ ]

+ ] \ [ + ] \ [ --- ] + [ ] - [SUB - RESET CLOSED
I 01560! 05758 ! 46244
I !

I + [ ] ..... ( ) - KEYSTROKE RESET
I ! 00100 ! 05757
I ! [ ] !

I + [T.01- ..... ( ) - PULSE TIMER
I 46251 05758
I

+ ] [ --- ] [ --- ] ..... ( ) - IF CONTROL & STOP VALVE
I 11739 11737 ZSL901 05761 ARE BOTH CLOSED, NV629B
I ZS940 WILL NOT OPEN
  
```

NETWORK: 00588 SEGMENT: 011 NV 629B

```

+ ] \ [ + ]
I 05761! ZSL940 & ZSL901 CLOSED
I !

+ ] \ [ + ]
I 05666! TRIP ALL
I !

+ ] \ [ + ]
I 05766! ZSL 901 - ADMISSION STOP VALVE CLOSED
I !

+ ] \ [ + ]
I 05767! ZSL 902 - INLET STOP VALVE CLOSED
I !

+ ] [ + ]
I 11546! MOV 628 CLOSED
I !

+ ] \ [ + ] [ ] -
I 00613 00001
I [ ]

+ ] \ [ + ] \ [ --- ] \ [ --- ] ..... ( ) - OPEN COMMAND
I 46244 01560
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

241

NETWORK: 00589 SEGMENT: 011

 * EMPTY NETWORK *

NETWORK: 00590 SEGMENT: 011 NV 631

+-] [+]\[-] [---]\[-] [---]\[-] [---]\[-]-()- KEYSTROKE - HS631
 I 00614! 05759 01648 02500 11549 00614

I !
 +-] [+]- *1648 = 4th POINT HEATER
 I 05763 OPEN ALL ! 00000 LEVEL NOT HIGH

I ! []
 +-]P[-] \[-] [---] +-] [+]-
 I 00614 11549 00000
 I []
 I -[SUB - RESET CLOSED
 I 46225

+-]\[-] [+]\[-]-()- KEYSTROKE RESET
 I 01540! 05760 05759

I !
 I +-] [+]--()- PULSE TIMER
 I ! 00000 05760
 I ! []
 I +-] [+]-
 I 46249
 I

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE	FSCM NO.	DRAWING NO.
A	18355	1D44789
REV	G	SHEET 242

NETWORK: 00591 SEGMENT: 011 NV 631

←JPI→
I 05666! TRIP ALL
I !
←JPI→
I 05766! ZSL 901 - ADMISSION STOP VALVE CLOSED
I !
←JPI→
I 05767! ZSL 902 - INLET STOP VALVE CLOSED
I !
←] [→
I 11549! MOV 630 CLOSED ✓
I !
←JNC←[]-
I 00614 00001
I []
←-----[UCTR----- ()- CLOSE COMMAND
I 46225 01540
I

**** END OF LISTING ****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

G

SHEET

242.1

NETWORK: 00592 SEGMENT: 011 MOV 901 - ADMISSION STOP VALVE

```

+ ] [ - ..... ( ) - OPEN LITE
I 11738 02324 ZI901
I
+ ] [ - ..... ( ) - CLOSED LITE
I 11737 02325
I
  
```

NETWORK: 00593 SEGMENT: 011

 * EMPTY NETWORK *

NETWORK: 00594 SEGMENT: 011 MOV 660

```

+ ] [ - ] [ +
I 11551 02500!
I !
+ ] [ - ] [ + ..... ( ) - KEYSTROKE - HS660
I 00616 06041 00616
I
+ ] [ - [ ] - ..... ( ) - OPEN COMMAND
I 00616 00001 01543
I [ ]
+ - [UCTR- ..... ( ) - CLOSE COMMAND
I 48127 01544
I
+ ] NC + ..... [ ] -
I 00616! 00000
I ! [ ]
+ ] [ + - [ ] -
I 11735 00000
I ZS155A [ ]
I -[SUB -
I 48127
I
  
```

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
MCDONNELL DOUGLAS	REV	F	SHEET
			243

NETWORK: 00595 SEGMENT: 011 MOV 660

```

+ ] [ - ..... ( ) - CLOSED LITE
I 11551 ZS 660B 02360 ZI 660
I
+ ] [ - ..... ( ) - OPEN LITE
I 11550 ZS 660A 02359
I
+ ] [ -+ ] [ - ..... ( ) - RESET HS 660
I 01544! 06042 06041
I !
I + [ ] - ..... ( ) - PULSE TIMER
I ! 00100 06042
I ! [ ]
I + [ T.01 -
I 48107
I
  
```

NETWORK: 00596 SEGMENT: 011

 * EMPTY NETWORK *

NETWORK: 00597 SEGMENT: 011

 * EMPTY NETWORK *

NETWORK: 00598 SEGMENT: 011

 * EMPTY NETWORK *

NETWORK: 00599 SEGMENT: 011

 * EMPTY NETWORK *

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. ID44789
REV E	SHEET 244	

NETWORK: 00600 SEGMENT: 011

* EMPTY NETWORK *

NETWORK: 00601 SEGMENT: 011 ILS 584 #1 STATUS

+-[]--[]-
I 47101 00012
I [] []
+-[STAT--[]-----+-[]-.....-()- BATTERY NOT OK
I 00061 47101 ! 00010 05401
I [] ! []
I -[SENS- +-[I1.0-
I 00001 48131
I

***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

F

SHEET


244.1

NETWORK: 00602 SEGMENT: 011 ILS 584 #1 STATUS

I	+-----+ []-			
I	! 47112			
I	! []			
I	+ []-----+ []-			
I	47180 ! 47180			
I	[] ! []			
I	-[CMPR-	+ []-	+ []-.....-()-	INPUT CHANNEL ALARM
I	00011 ! 00007 ! 00010		05402	
I	! [] ! []			
I	+-[ADD -	+-[T1.0-		
I	! 47173 ! 48132			
I	! !			
I	-[]--[]-	+ []-----+ []-		
I	47172 47173	47172	47173	
I	[] []	[]	[]	
I	-[]--[]-	-[]-	-[]-	
I	47172 47173	00008	00001	
I	[] []	[]	[]	
I	-[XOR--[XOR-	-[DIV -	-[ADD -	
I	00001 00001	47172	47173	
I				

***** END OF LISTING *****

NOTE: 47172 = CHANNEL NUMBER
 47173 = SLOT NUMBER
 47112--47122 = TABLE OF INPUT CHANNEL STATUS (FROM STAT, NET 601)
 47181--47191 = TABLE OF STATUS MASKS FOR COMPARISON WITH INPUT CHANNEL STATUS TABLE. THIS MASK MAY BE CHANGED IF EQUIPMENT IS ADDED OR DELETED.

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. 	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
	REV	G	SHEET
			244.2

NETWORK: 00603 SEGMENT: 011 ILS 584 #1 STATUS

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| I      |         | +[ ]- |         |         |         |         |         |         |         |
| I      |         | ! 47128 |         |         |         |         |         |         |
| I      |         | ! [ ] |         |         |         |         |         |         |
| I      |         | +[ ]- |-----+-----+-----+-----+-----+
| I      |         | 47200 |         | ! 47200 |         |         |         |         | | |
| I      |         | [ ] |         | ! [ ] |         |         |         |         |
| I      |         | -[CMPR- | +[ ]- | +[ ]- |-----+-----+-----+ |         |         |
| I      |         | 00011 |         | ! 00007 |         | ! 00010 |         |         |         |         |
| I      |         |         |         | ! [ ] |         | ! [ ] |         |         |         |
| I      | -[ ]--[ ]- |         | +[ADD - | +[T1.0- |         |         |         |         |
| I      | 47174 47175 |         | ! 47175 | ! 48133 |         |         |         |         |
| I      | [ ] [ ] |         | ! |         | ! |         |         |         |         |
| I      | -[ ]--[ ]- |         | +[ ]- | +[ ]- |         |         |         |         |
| I      | 47174 47175 |         | 47174 | 47175 |         |         |         |         |
| I      | [ ] [ ] |         | [ ] | [ ] |         |         |         |         |         |
| I      | -[ XOR--[ XOR- |         | -[ ]- | -[ ]- |         |         |         |         |
| I      | 00001 00001 |         | 00008 | 00001 |         |         |         |         |
| I      |         |         | [ ] | [ ] |         |         |         |         |         |
| I      |         |         | -[DIV - | -[ADD - |         |         |         |         |
| I      |         |         | 47174 | 47175 |         |         |         |         |
| I      |         |         |         |         |         |         |         |         |
| I      |         |         |         |         |         |         |         |         |
  
```

OUTPUT CHANNEL ALARM

**** END OF LISTING ****

NOTE: 47174 = CHANNEL NUMBER
 47175 = SLOT NUMBER
 47128--47138 = TABLE OF OUTPUT CHANNEL STATUS (FROM STAT, NET 601)
 47201--47211 = TABLE OF STATUS MASKS FOR COMPARISON WITH INPUT CHANNEL STATUS TABLE. THIS MASK MAY BE CHANGED IF EQUIPMENT IS ADDED OR DELETED.

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
REV	G	SHEET	244.3

NETWORK: 00604 SEGMENT: 011 ILS 584 #1 STATUS

+--] [-+.....--()- ALARM TO NET 2 TO
I 05401! 05001 OPERATE UI1999
I !
+--] [-+
I 05402!
I !
+--] [-+
I 05403
I

NETWORK: 00605 SEGMENT: 011

* EMPTY NETWORK *

**** END OF LISTING ****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE	FSCM NO.	DRAWING NO.
A	18355	1D44789
REV	F	SHEET 244.4

NETWORK: 00606 SEGMENT: 011 ILS 584 #1 STATUS

```
+-]V[+------( )-
I 05500! 05500
I !
I +-[ ]-
I 00500
I [ ]
+-]V[+[UCTR--[ ]-
I 10512! 48191 09999
I ! [ ]
I +-----[T.01-
I 48192 SCAN TIME - (XX.XXM SEC)
I
```

NOTE: TO CHECK 584 #1 LOGIC SCAN TIME SET REGISTER
10512 TO "ON" AND THEN "OFF" - THIS STARTS SCAN
TIME COUNTER

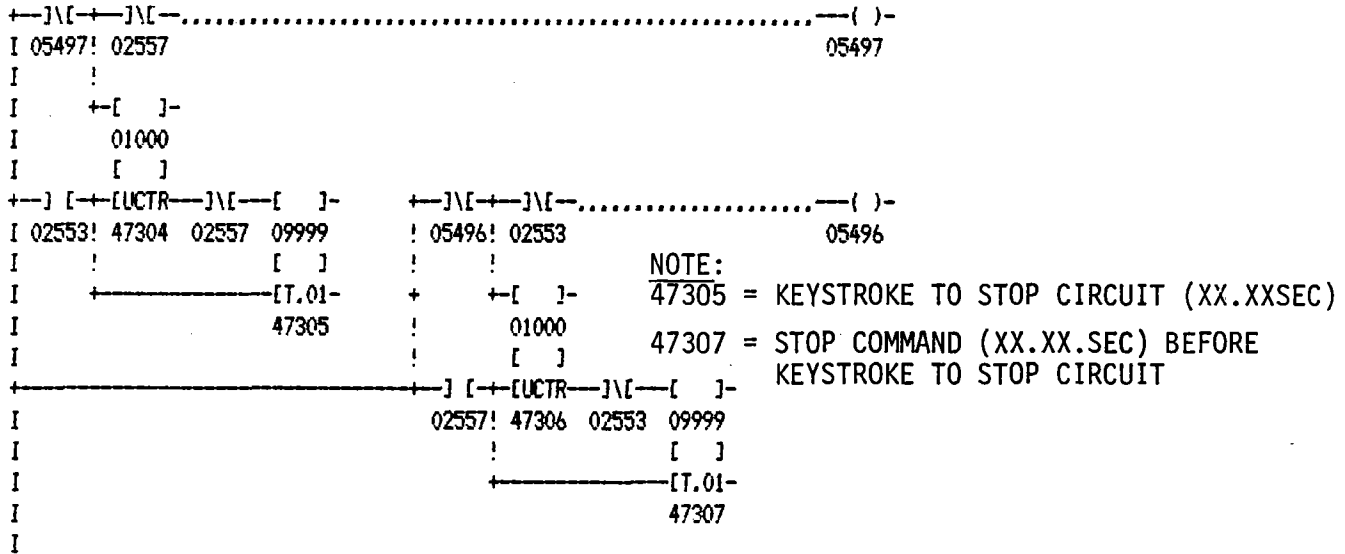
NETWORK: 00607 SEGMENT: 011 RSFP TRIP TIMERS

```
+-]V[+-]V[------( )-
I 05499! 02557 05499
I !
I +-[ ]-
I 01000
I [ ]
+-] [+ [UCTR--]V[---[ ]- +------( )-
I 02554! 47300 02557 09999 ! 05498! 02554 05498
I ! [ ] ! !
I +-----[T.01- + +[ ]-
I 47301 ! 01000
I ! [ ]
+-----+ ] [+ [UCTR--]V[---[ ] AFTER PS1105-1 CLOSE
I 02557! 47302 02554 09999 47303 = PS1105-1 CLOSE (XX.XXSEC)
I ! [ ] AFTER STOP COMMAND
I +-----[T.01-
I 47303
I
```

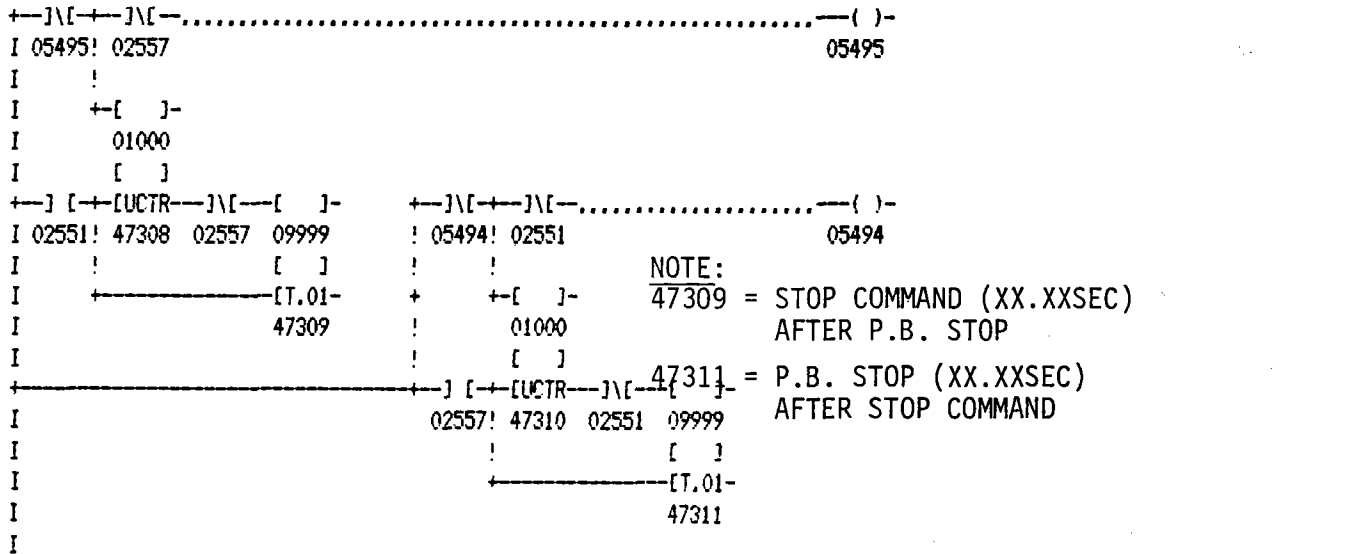
NOTE:
47301 = STOP COMMAND (XX.XXSEC)
AFTER PS1105-1 CLOSE
47303 = PS1105-1 CLOSE (XX.XXSEC)
AFTER STOP COMMAND

MCDONNELL DOUGLAS AERONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1044789
MCDONNELL DOUGLAS	REV	F	SHEET 244.5

NETWORK: 00608 SEGMENT: 011 RFSP TRIP TIMERS



NETWORK: 00609 SEGMENT: 011 RFSP TRIP TIMERS



MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
	MCDONNELL DOUGLAS	REV F	SHEET 244.6

NETWORK: 00610 SEGMENT: 011

```

+--]N[+--]N[---.....--( )-
I 05493! 02606                                05493
I      !
I      +[ ]-
I      01000
I      [ ]
+--] [+ [UCTR--]N[---[ ]-   +--]N[+--]N[---.....--( )-
I 02603! 47312 02606 09999   ! 05492! 02603                                05492
I      !           [ ]       !      !
I      +-----[T.01-   +   +[ ]-
I                        47313   !      01000
I                        !      [ ]
+-----+-----] [+ [UCTR--]N[---[ ]-
I                        02606! 47314 02603 09999
I                        !           [ ]
I                        +-----[T.01-
I                        47315
I

```

NETWORK: 00611 SEGMENT: 011

```

+--]N[+--]N[---.....--( )-
I 05491! 02606                                05491
I      !
I      +[ ]-
I      01000
I      [ ]
+--] [+ [UCTR--]N[---[ ]-   +--]N[+--]N[---.....--( )-
I 02604! 47316 02606 09999   ! 05490! 02604                                05490
I      !           [ ]       !      !
I      +-----[T.01-   +   +[ ]-
I                        47317   !      01000
I                        !      [ ]
+-----+-----] [+ [UCTR--]N[---[ ]-
I                        02606! 47318 02604 09999
I                        !           [ ]
I                        +-----[T.01-
I                        47319
I

```

**** END OF LISTING ****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

F

SHEET

244.7

584 #2
Ladder Networks

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

E

SHEET

245

CONTROLLER: 584 #2 EXEC #: 00066

NETWORKS: 00001-00128
COILS: NONE
DISCRETE INPUTS: NONE
INPUT REGS: NONE
HOLDING REGS: NONE
NUMBER OF MESSAGES: NONE

CONFIGURATION OF LEVEL 4 584 CONTROLLER

TOTAL LOGIC WORDS : 28647 TOTAL MESSAGE WORDS : 00000
TOTAL MESSAGES : 0000 HIGHEST MESSAGE USED : 0000
COILS: 4096 DISCRETE INPUTS: 2048
INPUT REGS: 0016 HOLDING REGS: 2048

SEG	USED	NETWORKS	SEG	USED	NETWORKS
0001	1675	0001 - 0128			

RUNNING 584

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

E

SHEET

246 - "

NETWORK: 00001 SEGMENT: 001

```

+ ] [ --- ] \ [ - ..... (L) - KEYSTROKE - HS2016
I 00001 02001 00001
I
+ ] [ + [ ] --- ] \ [ - ..... ( ) - 584 #1 Net 4
I 00001! 00050 10001 02001
I ! [ ]
I + [ T.01 -
I 40001
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00001] [00001
 02001] \ [00001

NETWORK: 00002 SEGMENT: 001

```

+ ] [ --- ] \ [ - ..... (L) - KEYSTROKE - HS2019
I 00002 02002 00002
I
+ ] [ + [ ] --- ] \ [ - ..... ( ) - 584 #1 Net 8
I 00002! 00050 10002 02002
I ! [ ]
I + [ T.01 -
I 40002
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00002] [00002
 02002] \ [00002

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

G

SHEET

247 - "

NETWORK: 00003 SEGMENT: 001

```

+ ] [---] \ [---] ..... (L) - KEYSTROKE - HS2007
I 00003 02003 00003
I
+ ] [++ [ ] ---] \ [---] ..... ( ) - 584 #1 NET 12
I 00003! 00050 10003 02003
I ! [ ]
I + [T.01-
I 40003
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00003] [00003
 02003] \ [00003

NETWORK: 00004 SEGMENT: 001

```

+ ] [---] \ [---] ..... (L) - KEYSTROKE - HS2911
I 00004 02004 00004
I
+ ] [++ [ ] ---] \ [---] ..... ( ) - 584 #1 NET 18
I 00004! 00050 10004 02004
I ! [ ]
I + [T.01-
I 40004
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00004] [00004
 02004] \ [00004

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SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
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NETWORK: 00005 SEGMENT: 001

```

+-] [+-] \[- .....--(L)- KEYSTROKE - HS2902
I 00005! 02005                                00005
I      !
+-] P[-+
I 00063
I
+-] [+-[ ]-] \[- .....--( )-
I 00005! 00050 10005                            02005
I      ! [ ]
I      +-[T.01-
I      40005
I
  
```

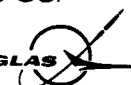
REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00005] [00005
 02005] \ [00005

NETWORK: 00006 SEGMENT: 001

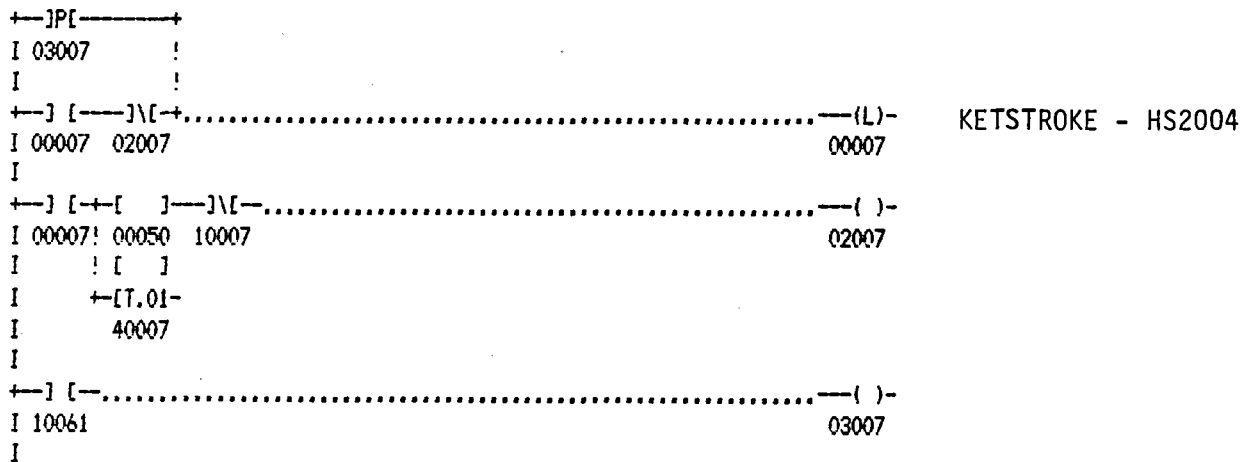
```

+-] [---] \[- .....--(L)- KEYSTROKE - HS2901
I 00006 02006                                00006
I
+-] [+-[ ]-] \[- .....--( )-
I 00006! 00050 10006                            02006
I      ! [ ]
I      +-[T.01-
I      40006
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00006] [00006
 02006] \ [00006

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NETWORK: 00007 SEGMENT: 001



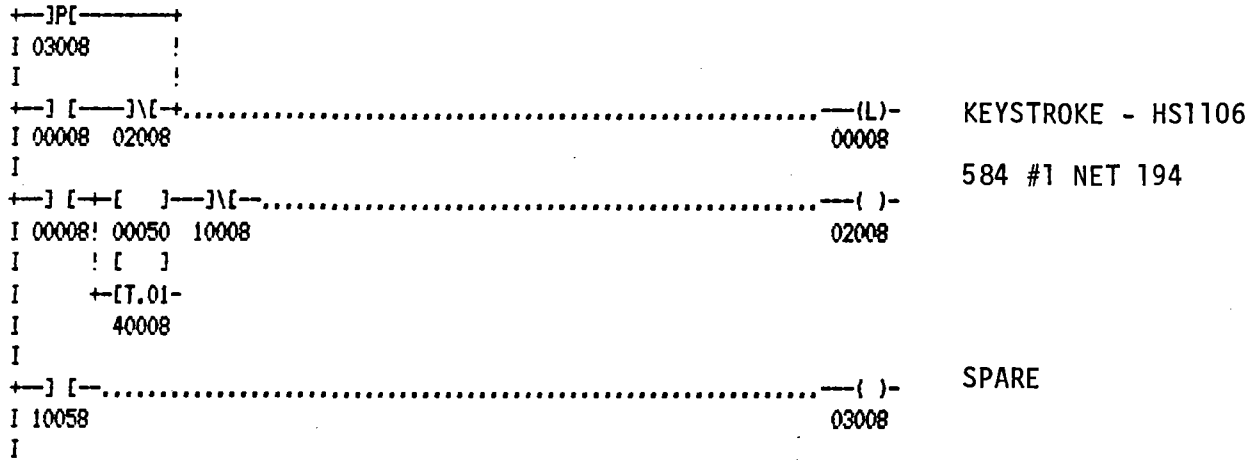
REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00007] [00007
02007] \ [00007
03007] P [00007

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	A	18355	1D44789
MCDONNELL DOUGLAS	REV	G	SHEET
			250

NETWORK: 00008 SEGMENT: 001



REF

COIL#	TYPE	CROSS REFERENCE BY NETWORKS
00008	J I	00008
02008	JN	00008
03008	JPI	00008

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251

NETWORK: 00009 SEGMENT: 001

```

+-] [---] \ / - ..... (L)- SPARE
I 00009 02009 00009
I
+-] [+ [ ] -] \ / - ..... ( )-
I 00009! 00050 10009 02009
I ! [ ]
I +-[T.01-
I 40009
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00009] [00009
 02009 \ / 00009

NETWORK: 00010 SEGMENT: 001

```

+-] [---] \ / - ..... (L)- KEYSTROKE - HS2914
I 00010 02010 00010
I
+-] [+ [ ] -] \ / - ..... ( )- 584 #1 NET 36
I 00010! 00050 10010 02010
I ! [ ]
I +-[T.01-
I 40010
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00010] [00010
 02010 \ / 00010

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252

NETWORK: 00011 SEGMENT: 001

```

+-] [---]\[-.....-(L)-
I 00011 02011          00011
I
+-] [+--[ ]--]\[-.....-( )-
I 00011! 00050 10011    02011
I   ! [ ]
I   +-[T.01-
I   40011
I
  
```

KEYSTROKE - HS2915

584 #1 NET 38

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00011 J I 00011
 02011 J\I 00011

NETWORK: 00012 SEGMENT: 001

```

+-] [---]\[-.....-(L)-
I 00012 02012          00012
I
+-] [+--[ ]--]\[-.....-( )-
I 00012! 00050 10012    02012
I   ! [ ]
I   +-[T.01-
I   40012
I
  
```

KEYSTROKE - HS2903

584 #1 NET 97

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00012 J I 00012
 02012 J\I 00012

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G

SHEET

253

NETWORK: 00013 SEGMENT: 001

```

←]PI[-----+
I 03013      !
I           !
←] [---]NI[→.....(L)- KEYSTROKE - HS44A
I 00013 02013      00013 584 #1 NET 179
I
←] [←+[ ]---]NI[→.....( )-
I 00013! 00050 10013      02013
I      ! [ ]
I      ←[T.01-
I      40013
I
←] [→.....( )- (INPUT FROM NET 176
I 10064      03013 584 #1)
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

00013] [00013
 02013 NI 00013
 03013 PI 00013

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REV

G

SHEET

253.1

NETWORK: 00014 SEGMENT: 001

```

+-] [---] \ [--- ..... (L)-
I 00014 02014 00014
I
+-] [+--[ ]---] \ [--- ..... ( )-
I 00014! 00050 10014 02014
I ! [ ]
I +-[T.01-
I 40014
I
  
```

KEYSTROKE - HS33
 584 #1 NET 188

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00014] [00014
 02014] \ [00014

NETWORK: 00015 SEGMENT: 001

```

+-] [---] \ [--- ..... (L)-
I 00015 02015 00015
I
+-] [+--[ ]---] \ [--- ..... ( )-
I 00015! 00050 10015 02015
I ! [ ]
I +-[T.01-
I 40015
I
  
```

KEYSTROKE - HS1010
 584 #1 NET 40

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00015] [00015
 02015] \ [00015

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SIZE

A

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18355

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REV

G

SHEET

254

NETWORK: 00016 SEGMENT: 001

```

+ ] [ --- ] \ / - ..... (L) -
I 00016 02016 00016
I
+ ] [ + [ ] --- ] \ / - ..... ( ) -
I 00016! 00050 10016 02016
I ! [ ]
I + [ T.01 -
I 40016
I
  
```

KEYSTROKE - HS1011
 584 1 NET 42

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00016] [00016
 02016] \ / 00016

NETWORK: 00017 SEGMENT: 001

```

+ ] [ --- ] \ / - ..... (L) -
I 00017 02017 00017
I
+ ] [ + [ ] --- ] \ / - ..... ( ) -
I 00017! 00050 10017 02017
I ! [ ]
I + [ T.01 -
I 40017
I
  
```

KEYSTROKE - HS1012
 584 #1 NET 44

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00017] [00017
 02017] \ / 00017

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

255

NETWORK: 00018 SEGMENT: 001

```

+-] [---]N[---.....-(L)-
I 00018 02018 00018
I
+-] [+--[ ]---]N[---.....( )-
I 00018! 00050 10018 02018
I ! [ ]
I +-[T.01-
I 40018
I
  
```

KEYSTROKE - HS1015
 584 #1 NET 48

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00018] [00018
 02018]N[00018

NETWORK: 00019 SEGMENT: 001

```

+-] [---]N[---.....-(L)-
I 00019 02019 00019
I
+-] [+--[ ]---]N[---.....( )-
I 00019! 00050 10019 02019
I ! [ ]
I +-[T.01-
I 40019
I
  
```

KEYSTROKE - HS1016
 584 #1 NET 50

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00019] [00019
 02019]N[00019

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

256

NETWORK: 00020 SEGMENT: 001

```

+-] [---] \ / - ..... (L)-
I 00020 02020 00020
I
+-] [---] \ / - ..... ( )-
I 00020! 00050 10020 02020
I ! [ ]
I +-[T.01-
I 40020
I
  
```

KEYSTROKE HS1031
 584 #1 NET 33

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00020 J [00020
 0:020 J \ / 00020

NETWORK: 00021 SEGMENT: 001

```

+-] [---] \ / - ..... ( )-
I 00021! 02021 00021
I !
I +- [ ] - \ / - ..... ( )-
I ! 00050 10021 02021
I ! [ ]
I +-[T.01-
I 40021
I
  
```

SPARE

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00021 J [00021
 02021 J \ / 00021

***** END OF LISTING *****

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SIZE

A

FSCM NO.

18355

DRAWING NO.

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REV

G

SHEET

257

NETWORK: 00022 SEGMENT: 001

```

+-] [---] \[---.....---(L)-
I 00022 02022 00022
I
+-] [+ [ ] ---] \[---.....---( )-
I 00022! 00050 10022 02022
I ! [ ]
I +-[T.01-
I 40022
I
  
```

KEYSTROKE - HS 2913
 584 #1 NET 200

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00022] [00022
 02022] \ [00022

NETWORK: 00023 SEGMENT: 001

```

+-] [---] \[---.....---(L)-
I 00023 02023 00023
I
+-] [+ [ ] ---] \[---.....---( )-
I 00023! 00050 10023 02023
I ! [ ]
I +-[T.01-
I 40023
I
  
```

KEYSTROKE - HS6200B
 584 #1 NET 204

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00023] [00023
 02023] \ [00023

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

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REV

G

SHEET

258

NETWORK: 00024 SEGMENT: 001

←] [→.....(L)-
 I 00024! 00024
 I !
 ←] [→
 I 10024
 I

ALARM PIH2006
 584 #1 NET 5

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00024] [00024

NETWORK: 00025 SEGMENT: 001

←] [→.....(L)-
 I 00025! 00025
 I !
 ←] [→
 I 10025
 I

ALARM PIH2906
 584 #1 NET 9

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00025] [00025

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SIZE

A

FSCM NO.

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G

SHEET

259

NETWORK: 00026 SEGMENT: 001

```

+-] [→.....-( )- SPARE
I 00026! 00026
I !
+-] [→
I 10026
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00026 J I 00026

NETWORK: 00027 SEGMENT: 001

```

+-] [→] \ [→.....-(L)- KEYSTROKE HS1001B
I 00027 02027 00027
I
+-] [→ [ ] →] \ [→.....-( )-
I 00027! 00050 10027 02027
I ! [ ]
I +-[T.01-
I 40027
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00027 J I 00027
 02027 J \ I 00027

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NETWORK: 00028 SEGMENT: 001

```

+-] [---]N[---.....-(L)- SPARE
I 00028 02028 00028
I
+-] [+-[ ]-]N[---.....-( )-
I 00028! 00050 10028 02028
I ! [ ]
I +-[T.01-
I 40028
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

```

00028 ] [ 00028
02028 ]N[ 00028
  
```

NETWORK: 00029 SEGMENT: 001

```

+-] [---]N[---.....-(L)- SPARE
I 00029 02029 00029
I
+-] [+-[ ]-]N[---.....-( )-
I 00029! 00050 10029 02029
I ! [ ]
I +-[T.01-
I 40029
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

```

00029 ] [ 00029
02029 ]N[ 00029
  
```

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SIZE

A

FSCM NO.

18355

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REV

G

SHEET-

26/

NETWORK: 00030 SEGMENT: 001

```

+--] [---]N[---.....---(L)- SPARE
I 00030 02030 00030
I
+--] [+--[ ]---]N[---.....---( )-
I 00030! 00050 10030 02030
I ! [ ]
I +-[T.01-
I 40030
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00030] [00030
 02030]N[00030

NETWORK: 00031 SEGMENT: 001

```

+--] [---]N[---.....---(L)- SPARE
I 00031 02031 00031
I
+--] [+--[ ]---]N[---.....---( )-
I 00031! 00050 10031 02031
I ! [ ]
I +-[T.01-
I 40031
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00031] [00031
 02031]N[00031

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

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DRAWING NO.

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SHEET

262

NETWORK: 00032 SEGMENT: 001

```

+-] [---] \ [---.....(L)-
I 00032 02032 00032
I
+-] [+ [ ] ---] \ [---.....( )-
I 00032! 00050 10032 02032
I ! [ ]
I +-[T.01-
I 40032
I
  
```

SPARE

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00032] [00032
 02032] \ [00032

NETWORK: 00033 SEGMENT: 001

```

+-] [+.....(L)-
I 00033! 00033
I !
+-] [+
I 10033
I
  
```

ALARM - PIH2911

584 #1 NET 18

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00033] [00033

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SIZE

A

FSCM NO.

18355

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G

SHEET

263

NETWORK: 00034 SEGMENT: 001

+] [+ (L) - ALARM - PIH 2911A
I 00034! 00034 584 #1 NET 19
I !
+] [+
I 10034
I

REF
COIL# TYPE CROSS REFERENCE BY NETWORKS
00034] [00034

NETWORK: 00035 SEGMENT: 001

+] [+ (L) - ALARM TIH2911
I 00035! 00035 584 #1 NET 18
I !
+] [+
I 10035
I

REF
COIL# TYPE CROSS REFERENCE BY NETWORKS
00035] [00035

***** END OF LISTING *****

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE A	FSCM NO. 18355	DRAWING NO. 1044789
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NETWORK: 00036 SEGMENT: 001

```

+-] [---] \[-----] (L)- SPARE
I 00036 02036 00036
I
+-] [++[ ]---] \[-----] ( )-
I 00036! 00050 10036 02036
I ! [ ]
I +-[T.01-
I 40036
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00036] [00036
 02036] \ [00036

NETWORK: 00037 SEGMENT: 001

```

+-] [---] \[-----] (L)- SPARE
I 00037 02037 00037
I
+-] [++[ ]---] \[-----] ( )-
I 00037! 00050 10037 02037
I ! [ ]
I +-[T.01-
I 40037
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00037] [00037
 02037] \ [00037

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
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			265

NETWORK: 00038 SEGMENT: 001

```

+-] [---] \ [---] ..... (L)-
I 00038 02038 00038 SPARE
I
+-] [+ [ ] ] \ [---] ..... ( )-
I 00038! 00050 10038 02038
I ! [ ]
I +-[T.01-
I 40038
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00038] [00038
 02038] \ [00038

NETWORK: 00039 SEGMENT: 001

```

+-] [---] \ [---] ..... (L)-
I 00039 02039 00039 SPARE
I
+-] [+ [ ] ] \ [---] ..... ( )-
I 00039! 00050 10039 02039
I ! [ ]
I +-[T.01-
I 40039
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00039] [00039
 02039] \ [00039

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
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NETWORK: 00040 SEGMENT: 001

```

+ ] [ --- ] \ [ --- ..... (L) -
I 00040 02040 00040 SPARE
I
+ ] [ + [ ] --- ] \ [ --- ..... ( ) -
I 00040! 00050 10040 02040
I ! [ ]
I + [ T.01 -
I 40040
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00040] [00040
 02040] \ [00040

NETWORK: 00041 SEGMENT: 001

```

+ ] [ --- ] \ [ --- ..... (L) -
I 00041 02041 00041 SPARE
I
+ ] [ + [ ] --- ] \ [ --- ..... ( ) -
I 00041! 00050 10041 02041
I ! [ ]
I + [ T.01 -
I 40041
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00041] [00041
 02041] \ [00041

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REV

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267

NETWORK: 00042 SEGMENT: 001

```

+ ] [ --- ] \ [ - ..... (L)-
I 00042 02042 00042 SPARE
I
+ ] [ + [ ] - ] \ [ - ..... ( )-
I 00042! 00050 10042 02042
I ! [ ]
I + [ T.01-
I 40042
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00042] [00042
 02042] \ [00042

NETWORK: 00043 SEGMENT: 001

```

+ ] [ --- ] \ [ - ..... (L)-
I 00043 02043 00043 SPARE
I
+ ] [ + [ ] - ] \ [ - ..... ( )-
I 00043! 00050 10043 02043
I ! [ ]
I + [ T.01-
I 40043
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00043] [00043
 02043] \ [00043

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.	SIZE	FSCM NO.	DRAWING NO.
	A	18355	1D44789
MCDONNELL DOUGLAS	REV	G	SHEET
			268

NETWORK: 00044 SEGMENT: 001

```

+-] [---] \ / - ..... (L)-
I 00044 02044 00044 SPARE
I
+-] [+ [ ] ---] \ / - ..... ( )-
I 00044! 00050 10044 02044
I ! [ ]
I +-[T.01-
I 40044
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00044] [00044
 02044] \ / 00044

NETWORK: 00045 SEGMENT: 001

```

+-] [---] \ / - ..... (L)-
I 00045 02045 00045 SPARE
I
+-] [+ [ ] ---] \ / - ..... ( )-
I 00045! 00050 10045 02045
I ! [ ]
I +-[T.01-
I 40045
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00045] [00045
 02045] \ / 00045

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SIZE

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18355

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SHEET

269

NETWORK: 00046 SEGMENT: 001

```

+-] [---] \ [---] ..... (L)-
I 00046 02046 00046 SPARE
I
+-] [-+ [ ] ---] \ [---] ..... ( )-
I 00046! 02046 10046 02046
I ! [ ]
I +[T.01-
I 40046
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00046] [00046
 02046] \ [00046

NETWORK: 00047 SEGMENT: 001

```

+-] [---] \ [---] ..... (L)-
I 00047 02047 00047 SPARE
I
+-] [-+ [ ] ---] \ [---] ..... ( )-
I 00047! 00050 10047 02047
I ! [ ]
I +[T.01-
I 40047
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00047] [00047
 02047] \ [00047

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SIZE

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FSCM NO.

18355

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NETWORK: 00048 SEGMENT: 001

```

+-] [---] \ [--- ..... (L)- SPARE
I 00048 02048 00048
I
+-] [+ + [ ] ---] \ [--- ..... ( )-
I 00048! 00050 10048 02048
I ! [ ]
I +-[T.01-
I 40048
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00048] [00048
 02048] \ [00048

NETWORK: 00049 SEGMENT: 001

```

+-] [---] \ [--- ..... (L)- SPARE
I 00049 02049 00049
I
+-] [+ + [ ] ---] \ [--- ..... ( )-
I 00049! 00050 10049 02049
I ! [ ]
I +-[T.01-
I 40049
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00049] [00049
 02049] \ [00049

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NETWORK: 00050 SEGMENT: 001

```

+--] [---] \[---.....---(L)-
I 00050 02050                                00050    SPARE
I
+--] [---] \[---.....---( )-
I 00050! 00050 10050                            02050
I   ! [ ]
I   +--[T.01-
I     40050
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00050] [00050
 02050] \ [00050

NETWORK: 00051 SEGMENT: 001

```

+--] [---] \[---.....---(L)-
I 00051 02051                                00051    SPARE
I
+--] [---] \[---.....---( )-
I 00051! 00050 10051                            02051
I   ! [ ]
I   +--[T.01-
I     40051
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00051] [00051
 02051] \ [00051

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NETWORK: 00052 SEGMENT: 001

```

+--] [---] \ [---] ..... (L)-
I 00052 02052 00052
I
+--] [+--[ ]---] \ [---] ..... ( )-
I 00052! 00050 10052 02052
I ! [ ]
I +-[T.01-
I 40052
I
  
```

SPARE

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00052] [00052
 02052] \ [00052

NETWORK: 00053 SEGMENT: 001

```

+--] [---] \ [---] ..... (L)-
I 00053 02053 00053
I
+--] [+--[ ]---] \ [---] ..... ( )-
I 00053! 00050 10053 02053
I ! [ ]
I +-[T.01-
I 40053
I
  
```

SPARE

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00053] [00053
 02053] \ [00053

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273

NETWORK: 00054 SEGMENT: 001

```

+-] [---] \ [--- ..... (L)-
I 00054 02054 00054 SPARE
I
+-] [++[ ]---] \ [--- ..... ( )-
I 00054! 00050 10054 02054
I ! [ ]
I +[T.01-
I 40054
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00054] [00054
 02054] \ [00054

NETWORK: 00055 SEGMENT: 001

```

+-] [---] \ [--- ..... (L)-
I 00055 02055 00055 SPARE
I
+-] [++[ ]---] \ [--- ..... ( )-
I 00055! 00050 10055 02055
I ! [ ]
I +[T.01-
I 40055
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00055] [00055
 02055] \ [00055

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274

NETWORK: 00056 SEGMENT: 001

```

+ ] [ --- ] \ [ - ..... (L) -
I 00056 02056 00056 SPARE
I
+ ] [ + [ ] --- ] \ [ - ..... ( ) -
I 00056! 00050 10056 02056
I ! [ ]
I + [ T.01 -
I 40056
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00056] [00056
 02056] \ [00056

NETWORK: 00057 SEGMENT: 001

```

+ ] [ --- ] \ [ - ..... (L) -
I 00057 02057 00057 SPARE
I
+ ] [ + [ ] --- ] \ [ - ..... ( ) -
I 00057! 00050 10057 02057
I ! [ ]
I + [ T.01 -
I 40057
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00057] [00057
 02057] \ [00057

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SIZE

A

FSCM NO.

18355

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REV

G

SHEET

275

NETWORK: 00058 SEGMENT: 001

```

+-] [---] \ [ - ..... (L)-
I 00058 02058 00058
I
+-] [++[ ]---] \ [ - ..... ( )-
I 00058! 00050 10058 02058
I ! [ ]
I +-[T.01-
I 40058
I
  
```

KEYSTROKE

584 #1 NET 196

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00058] I 00058
 02058] \ I 00058

NETWORK: 00059 SEGMENT: 001

```

+-] [--- ..... ( )-
I 00059 00059
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00059] I 00059

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MCDONNELL DOUGLAS

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NETWORK: 00060 SEGMENT: 001

```

+-] [+
I 02060!
I !
+-] [+.....-(L)-
I 00060 00060
I
I +-] \[-.....-( )-
I ! 03060 02060
I ! 3060
+-] [+ [ ]-.....-( )-
I 10060! 00050 03060
I ! [ ]
I +-[T.01-
I 40060
I
  
```

USED WITH
 NETWORK 2
 584 #1

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

00060] I 00060
 02060] I 00060
 03060] I 00060

MCDONNELL DOUGLAS ASTRONAUTICS CO.
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MCDONNELL DOUGLAS

SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
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NETWORK: 00061 SEGMENT: 001

```

+-] [---] \ [---] ..... ---(L)-
I 00061 02061 00061
I
+-] [---] \ [---] ..... ---( )-
I 00061! 00050 10061 02061
I ! [ ]
I +-[T.01-
I 40061
I
  
```

USED WITH
 NETWORK 29
 584 #1

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00061] [00061
 02061 \ [00061

NETWORK: 00062 SEGMENT: 001

```

+-] [---] ..... ---(L)-
I 10062 00062
I
  
```

USED WITH
 NETWORK 26
 584 #1

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

MCDONNELL DOUGLAS ASTRONAUTICS CO.
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278

NETWORK: 00063 SEGMENT: 001

←-] [---] \ [---] ---(L)- USED WITH
 I 10063 00063 NETWORK 22,
 I 584 #1

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00063 JPI 00005

NETWORK: 00064 SEGMENT: 001

←-] [---] \ [---] ---(L)- USED WITH
 I 00064 02064 00064 NETWORK 176 in
 I 584 #1 (SEE
 ←-] [---] \ [---] ---()- NETWORK 13, 584 #2)
 I 00064! 00050 10064 02064
 I ! []
 I ←-[T.01-
 I 40064
 I

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00064] [00064
 02064] \ [00064

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279

NETWORK: 00065 SEGMENT: 001

```

+ ] [ - ] \ [ + ..... (L) - KEYSTROKE - HS50A
I 00257 02065! 00257
I      !
+ - - - - ] P [ +
I      03065
I
+ ] [ - ..... ( ) - COMMAND TO 584 #1
I 00257 00065
I
+ ] [ + [ ] - ] \ [ - ..... ( ) - TALKBACK FROM 584 #1
I 00065! 00050 10065 02065
I      ! [ ]
I      + [ T.01 -
I      40065
I
+ ] [ - ..... ( ) - INITIALIZE KEYSTROKE
I 10128 03065
I REFER TO NET 420, 584 #1
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00257] [00065
00065] [00065
02065] \	00065
03065] P [00065

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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

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G

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279.1

NETWORK: 00066 SEGMENT: 001

```

+ ] [ + ] \ [ - ..... (L) - SPARE
I 00258! 02066 00258
I !
I + ..... ( ) -
I 00066 00066
I
+ ] [ + [ ] - ] \ [ - ..... ( ) -
I 00066! 00050 10066 02066
I ! [ ]
I + [ T.01 -
I 40066
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

```

00258 ] [ 00066
00066 ] [ 00066
02066 ] \ [ 00066
  
```

NETWORK: 00067 SEGMENT: 001

```

+ ] [ + ] \ [ - ..... (L) - SPARE
I 00259! 02067 00259
I !
I + ..... ( ) -
I 00067 00067
I
+ ] [ + [ ] - ] \ [ - ..... ( ) -
I 00067! 00050 10067 02067
I ! [ ]
I + [ T.01 -
I 40067
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

```

00259 ] [ 00067
00067 ] [ 00067
02067 ] \ [ 00067
  
```

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			280

NETWORK: 00068 SEGMENT: 001

```

+-] [-+-]N[------(L)- KEYSTROKE - HS1013
I 00260! 02068 00260
I !
I +------( )-
I 00068
I
+-] [-+-[ ]--]N[------( )-
I 00068! 00050 10068 02068
I ! [ ]
I +-[T.01-
I 40068 REFER TO NET 46, 584 #1
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

00260	I	[00068
00068	I	[00068
02068	N	[00068

NETWORK: 00069 SEGMENT: 001


SPARE

```

+-] [-+-]N[------(L)-
I 00261! 02069 00261
I !
I +------( )-
I 00069
I
+-] [-+-[ ]--]N[------( )-
I 00069! 00050 10069 02069
I ! [ ]
I +-[T.01-
I 40069
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

00261	I	[00069
00069	I	[00069
02069	N	[00069

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REV	G	SHEET	281

NETWORK: 00070 SEGMENT: 001

```

+ ] [ + ] \ [ - ..... (L) - SPARE
I 00262! 02070 00262
I !
I + ..... ( ) -
I 00070
I
+ ] [ + [ ] - ] \ [ - ..... ( ) -
I 00070! 00050 10070 02070
I ! [ ]
I + [ T.01 -
I 40070
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00262] [00070
 00070] [00070
 02070] \ [00070

NETWORK: 00071 SEGMENT: 001

```

+ ] [ + ] \ [ - ..... (L) - SPARE
I 00263! 02071 00263
I !
I + ..... ( ) -
I 00071
I
+ ] [ + [ ] - ] \ [ - ..... ( ) -
I 00071! 00050 10071 02071
I ! [ ]
I + [ T.01 -
I 40071
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00263] [00071
 00071] [00071
 02071] \ [00071

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NETWORK: 00072 SEGMENT: 001

KEYSTROKE HS1030

```

+-] [+ ]\[-.....-(L)-
I 00264! 02072          00264
I      !
I      +.....-( )-
I                          00072
I
+-] [+ [ ]- ]\[-.....-( )-
I 00072! 00050 10072    02072
I      ! [ ]
I      +[T.01-
I      40072          REFER TO NET 12, 584 #1
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00264] [00072
 00072] [00072
 02072]\ [00072

NETWORK: 00073 SEGMENT: 001

SPARE

```

+-] [+ ]\[-.....-(L)-
I 00265! 02073          00265
I      !
I      +.....-( )-
I                          00073
I
+-] [+ [ ]- ]\[-.....-( )-
I 00073! 00050 10073    02073
I      ! [ ]
I      +[T.01-
I      40073
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00265] [00073
 00073] [00073
 02073]\ [00073

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G

SHEET

283

NETWORK: 00074 SEGMENT: 001

```

+ ] [ --- ] \ [ + ..... (L) - KEYSTROKE - HS3112
I 00266 02074! 00266
I
+-----] P [ +
I 03074
I
  
```

```

+ ] [ - ..... ( ) -
I 00266 00074
I
  
```

```

+ ] [ + [ ] - ] \ [ - ..... ( ) -
I 00074! 00050 10074 02074
I ! [ ]
I + [ T.01 -
I 40074
I
  
```

```

+ ] [ - ..... ( ) - REFER TO NET 72, 584 #1
I 10121 03074
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

```

00266 ] [ 00074
00074 ] [ 00074
02074 ] \ [ 00074
03074 ] P [ 00074
  
```

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NETWORK: 00075 SEGMENT: 001

```

+-] [+ ]\|----- (L)- KEYSTROKE - HS3708
I 00267! 02075 00267
I !
I +----- ( )-
I 00075
I
+-] [+ [ ]- ]\|----- ( )-
I 00075! 00050 10075 02075
I ! [ ]
I +[T.01-
I 40075
I
REFER TO NET 75, 584 #1
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00267] [00075
 00075] [00075
 02075]\| 00075

NETWORK: 00076 SEGMENT: 001

```

+-] [+ ]\|----- (L)- KEYSTROKE HS3808
I 00268! 02076 00268
I !
I +----- ( )-
I 00076
I
+-] [+ [ ]- ]\|----- ( )-
I 00076! 00050 10076 02076
I ! [ ]
I +[T.01-
I 40076
I
REFER TO NET 77, 584 #1
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00268] [00076
 00076] [00076
 02076]\| 00076

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SIZE

A

FSCM NO.

18355

DRAWING NO.

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REV

G

SHEET

285

NETWORK: 00077 SEGMENT: 001

```

+-] [+ ]\[-.....-(L)- KEYSTROKE HS3807
I 00269! 02077 00269
I !
I +.....-( )-
I 00077
I
+-] [+ [ ]- ]\[-.....-( )-
I 00077! 00050 10077 02077
I ! [ ]
I +[T.01-
I 40077
I REFER TO NET 79, 584 #1
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00269] [00077
 00077] [00077
 00077]\ [00077

NETWORK: 00078 SEGMENT: 001

```

+-] [+ ]\[-.....-(L)- Keystroke HS3707
I 00270! 02078 00270 REFER TO NET 81, 584 #1
I !
I +.....-( )-
I 00078
I
+-] [+ [ ]- ]\[-.....-( )-
I 00078! 00050 10078 02078
I ! [ ]
I +[T.01-
I 40078
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00270] [00078
 00078] [00078
 00078]\ [00078

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286

NETWORK: 00079 SEGMENT: 001

```

+-] [+-] \[----- (L)- KEYSTROKE HS3318
I 00271! 02079 00271
I !
I +----- ( )-
I 00079
I
+-] [+-[ ]-] \[----- ( )-
I 00079! 00050 10079 02079
I ! [ ]
I +-[T.01-
I 40079
I REFER TO NET 83, 584 #1
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00271] [00079
 00079] [00079
 00079] \ [00079

NETWORK: 00080 SEGMENT: 001

```

+-] [+-] \[----- (L)- KEYSTROKE - HS3218
I 00272! 02080 00272
I !
I +----- ( )-
I 00080
I
+-] [+-[ ]-] \[----- ( )-
I 00080! 00050 10080 02080
I ! [ ]
I +-[T.01-
I 40080
I REFER TO NET 85, 584 #1
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00272] [00080
 00080] [00080
 02080] \ [00080

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NETWORK: 00081 SEGMENT: 001

```

+-] [+-] \ [ - ..... (L)- KEYSTROKE - HS3906
I 00273! 02081 00273
I !
I + ..... ( )-
I 00081
I
+-] [+-[ ] -] \ [ - ..... ( )-
I 00081! 00050 10081 02081
I ! [ ]
I +[T.01-
I 40081
I REFER TO NET 87, 584 #1
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00273 J I 00081
 01081 J I 00081
 02081 J \ I 00081

NETWORK: 00082 SEGMENT: 001

```

+-] [+-] \ [ - ..... (L)- KEYSTROKE - HS3905
I 00274! 02082 00274
I !
I + ..... ( )-
I 00082
I
+-] [+-[ ] -] \ [ - ..... ( )-
I 00082! 00050 10082 02082
I ! [ ]
I +[T.01-
I 40082
I REFER TO NET 89, 584 #1
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00274 J I 00082
 00082 J I 00082
 02082 J \ I 00082

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SIZE

A

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288

NETWORK: 00083 SEGMENT: 001

```

+ ] [ + ] \ [ - ..... (L) - KEYSTROKE - HS3309
I 00275! 02083 00275
I !
I + ..... ( ) -
I 00083
I
+ ] [ + [ ] - \ [ - ..... ( ) -
I 00083! 00050 10083 02083
I ! [ ]
I + [ T.01 -
I 40083
I REFER TO NET 91, 584 #1
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

00275] [00083
 00083] [00083
 02083] \ [00083

NETWORK: 00084 SEGMENT: 001

```

+ ] [ + ] \ [ - ..... (L) - KEYSTROKE - HS3209
I 00276! 02084 00276
I !
I + ..... ( ) -
I 00084
I
+ ] [ + [ ] - \ [ - ..... ( ) -
I 00084! 00050 10084 02084
I ! [ ]
I + [ T.01 -
I 40084
I REFER TO NET 93, 584 #1
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

00276] [00084
 00084] [00084
 02084] \ [00084

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NETWORK: 00085 SEGMENT: 001

```

+-] [+-] \[---.....--(L)- KEYSTROKE - HS3320
I 00277! 02085 00277
I !
I +.....--( )-
I 00085
I
+-] [+-[ ]--] \[---.....--( )-
I 00085! 00050 10085 02085
I ! [ ]
I +-[T.01-
I 40085
I REFER TO NET 95, 584 #1
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00277] [00085
 00085] [00085
 02085] \ [00085

NETWORK: 00086 SEGMENT: 001

```

+-] [+-] \[---.....--(L)- KEYSTROKE - HS3220
I 00278! 02086 00278
I !
I +.....--( )-
I 00086
I
+-] [+-[ ]--] \[---.....--( )-
I 00086! 00050 10086 02086
I ! [ ]
I +-[T.01-
I 40086
I REFER TO NET 99, 584 #1
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00278] [00086
 00086] [00086
 02086] \ [00086

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NETWORK: 00087 SEGMENT: 001

```

+-] [+ ]\|----- (L)-
I 00279! 02087 00279
I !
I +----- ( )-
I 00087
I
+-] [+ [ ]--]\|----- ( )-
I 00087! 00050 10087 02087
I ! [ ]
I +-[T.01-
I 40087
I
  
```

KEYSTROKE - HS3005

REFER TO NET 101, 584 #1

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00279] [00087
 00087] [00087
 02087]\| 00087

NETWORK: 00088 SEGMENT: 001

```

+-] [+ ]\|----- (L)-
I 00280! 02088 00280
I !
I +----- ( )-
I 00088
I
+-] [+ [ ]--]\|----- ( )-
I 00088! 00050 10088 02088
I ! [ ]
I +-[T.01-
I 40088
I
  
```

KEYSTROKE - HS3907

REFER TO NET 103, 584 #1

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00280] [00088
 00088] [00088
 02088]\| 00088

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NETWORK: 00089 SEGMENT: 001

```

+-] [+ ]\[-.....-(L)- KEYSTROKE - HS3004
I 00281! 02089 00281
I !
I +.....-( )-
I 00089 00089
I
+-] [+ [ ]- ]\[-.....-( )-
I 00089! 00050 10089 02089
I ! [ ]
I +[T.01-
I 40089
I REFER TO NET 105, 584 #1
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00281] [00089
 00089] [00089
 02089]\ [00089

NETWORK: 00090 SEGMENT: 001

```

+-] [+ ]\[-.....-(L)- KEYSTROKE - HS3003
I 00282! 02090 00282
I !
I +.....-( )-
I 00090 00090
I
+-] [+ [ ]- ]\[-.....-( )-
I 00090! 00050 10090 02090
I ! [ ]
I +[T.01-
I 40090
I REFER TO NET 107, 584 #1
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00282] [00090
 00090] [00090
 02090]\ [00090

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292

NETWORK: 00091 SEGMENT: 001

```

+ ] [ + ] \ [ - ..... (L) - KEYSTROKE - HS3002
I 00283! 02091 00283
I !
I + ..... ( ) -
I 00091 00091
I
+ ] [ + [ ] - ] \ [ - ..... ( ) -
I 00091! 00050 10091 02091
I ! [ ]
I + [ T.01 -
I 40091
I
REFER TO NET 109, 584 #1
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00283] [00091
 00091] [00091
 02091] \ [00091

NETWORK: 00092 SEGMENT: 001

```

+ ] [ + ] \ [ - ..... (L) - KEYSTROKE HS3001
I 00284! 02092 00284
I !
I + ..... ( ) -
I 00092 00092
I
+ ] [ + [ ] - ] \ [ - ..... ( ) -
I 00092! 00050 10092 02092
I ! [ ]
I + [ T.01 -
I 40092
I
REFER TO NET 111, 584 #1
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00284] [00092
 00092] [00092
 02092] \ [00092

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NETWORK: 00093 SEGMENT: 001

```

+--] [---]X[---.....--(L)- KEYSTROKE - HS3717
I 00285! 02093 00285
I !
I +.....--( )-
I 00093 00093
I
I
+--] [---] [---]X[---.....--( )-
I 00093! 00050 10093 02093
I ! [ ]
I +---[T.01-
I 40093
I
  
```

REFER TO NET 113, 584 #1

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00285] [00093
 00093] [00093
 02093]X [00093

NETWORK: 00094 SEGMENT: 001

```

+--] [---]X[---.....--(L)- KEYSTROKE - HS3817
I 00286! 02094 00286
I !
I +.....--( )-
I 00094 00094
I
I
+--] [---] [---]X[---.....--( )-
I 00094! 00050 10094 02094
I ! [ ]
I +---[T.01-
I 40094
I
  
```

REFER TO NET 73, 584 #1

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00286] [00094
 00094] [00094
 02094]X [00094

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NETWORK: 00095 SEGMENT: 001

```

+-] [+--] \ [ - ..... (L)- KEYSTROKE - HS3206
I 00287! 02095 ..... 00287
I !
I + ..... ( )-
I ..... 00095
I
+-] [+ [ ] --] \ [ - ..... ( )-
I 00095! 00050 10095 ..... 02095
I ! [ ]
I +-[T.01-
I 40095
I
  
```

REFER TO NET 116, 584 #1

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

00287] [00095
 00095] [00095
 02095 \ [00095

NETWORK: 00096 SEGMENT: 001

```

+-] [+--] \ [ - ..... (L)- KEYSTROKE - HS3306
I 00288! 02096 ..... 00288
I !
I + ..... ( )-
I ..... 00096
I
+-] [+ [ ] --] \ [ - ..... ( )-
I 00096! 00050 10096 ..... 02096
I ! [ ]
I +-[T.01-
I 40096
I
  
```

REFER TO NET 121, 584 #1

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

00288] [00096
 00096] [00096
 02096 \ [00096

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NETWORK: 00097 SEGMENT: 001

```

+ ] [ + ] \ / - ..... (L) -
I 00289! 02097 00289
I !
I + ..... ( ) -
I 00097
I
+ ] [ + [ ] - ] \ / - ..... ( ) -
I 00097! 00050 10097 02097
I ! [ ]
I + [ T.01 -
I 40097
I
  
```

KEYSTROKE - HS3909

REFER TO NET 126, 584 #1

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00289] I 00097
 00097] I 00097
 02097 \ / I 00097

NETWORK: 00098 SEGMENT: 001

```

+ ] [ - ] \ / + ..... (L) -
I 00290 02098! 00290
I !
+ - - - - ] P [ +
I 03098
I
+ ] [ - ..... ( ) -
I 00290 00098
I
+ ] [ + [ ] - ] \ / - ..... ( ) -
I 00098! 00050 10098 02098
I ! [ ]
I + [ T.01 -
I 40098
I
+ ] [ - ..... ( ) -
I 10127 03098
I
  
```

KEYSTROKE - HS3413

REFER TO NET 132, 584 #1

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

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REV

G

SHEET

296

00290] [00098
 00098] [00098
 02098]\ [00098
 03098]P [00098

NETWORK: 00099 SEGMENT: 001

```

+ ] [ --- ] \ [ + ..... (L) - KEYSTROKE - HS3414
I 00291 02099! 00291
I
+ --- ] P [ +
I 03099
I
+ ] [ - ..... ( ) -
I 00291 00099
I
+ ] [ + [ ] - ] \ [ - ..... ( ) -
I 00099! 00050 10099 02099
I ! [ ]
I + [ T.01 -
I 40099
I
+ ] [ - ..... ( ) -
I 10126 03099
I REFER TO NET 143, 584 #1
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

00291] [00099
 00099] [00099
 02099]\ [00099
 03099]P [00099

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SIZE

A

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REV

G

SHEET

296.1

NETWORK: 00100 SEGMENT: 001

```

+ ] [ --- ] \ [ + ..... ( ) - KEYSTROKE - HS3903
I 00292 02100! 00292
I      !
+ --- ] P [ +
I      03100
I
+ ] [ - ..... ( ) -
I 00292 00100
I
+ ] [ + [ ] - ] \ [ - ..... ( ) -
I 00100! 00050 10100 02100
I      ! [ ]
I      + [ T.01 -
I      40100
I
+ ] [ - ..... ( ) -
I 10125 03100
I
  
```

REFER TO NET 154, 584 #1

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

00292] [00100
00100] [00100
02100] \ [00100
03100] P [00100

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	A	18355	1D44789
	REV	SHEET	
	G	297	

NETWORK: 00101 SEGMENT: 001

```

+-] [---] \[--+.....-(L)- KEYSTROKE - HS3904
I 00293 02101! 00293
I
+-----] J[--+
I 03101
I
+-] [---.....-( )-
I 00293 00101
I
+-] [++[ ]---] \[---.....-( )-
I 00101! 00050 10101 02101
I ! [ ]
I +-[T.01-
I 40101
I
+-] [---.....-( )-
I 10124 03101
I REFER TO NET 166, 584 #1
  
```

REF

COIL#	TYPE	CROSS REFERENCE BY NETWORKS
00293] [00101
00101] [00101
02101] \[00101
03101] J[00101

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REV

G

SHEET

297.1

NETWORK: 00102 SEGMENT: 001

```

+ ] [ + ] \ [ - ..... (L) - KEYSTROKE - HS1132
I 00294! 02102 00294
I !
I + ..... ( ) -
I 00102
I
+ ] [ + [ ] - ] \ [ - ..... ( ) -
I 00102! 00050 10102 02102
I ! [ ]
I + [T.01-
I 40102 REFER TO NET 65, 584, #1
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00294] [00102
 00102] [00102
 02102] \ [00102

NETWORK: 00103 SEGMENT: 001 TSCH RLU RESET

```

+ ] [ + ] \ [ - ..... (L) - KEYSTROKE - HS6301B
I 00295! 02103 00295
I !
I + ..... ( ) -
I 00103
I
+ ] [ + [ ] - ] \ [ - ..... ( ) -
I 00103! 00050 10103 02103
I ! [ ]
I + [T.01-
I 40103 REFER TO NET 206, 584 #1
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00295] [00103
 00103] [00103
 02103] \ [00103

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G

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298

NETWORK: 00104 SEGMENT: 001 TSSG RLU RESET

```

+-] [+ ]\[-.....-(L)- KEYSTROKE - HS6302B
I 00296! 02104 00296
I !
I +.....-( )-
I 00104 00104
I ! [ ]
I +[T.01-
I 40104
I REFER TO NET 208, 584 #1
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

00296] [00104
 00104] [00104
 02104 \ [00104

NETWORK: 00105 SEGMENT: 001

```

+-] [+ ]\[-.....-(L)- KEYSTROKE - HS3116
I 00297 02105 00297
I
+-] [+ ]\[-.....-( )-
I 00297 00105
I
+-] [+ ]\[-.....-( )-
I 00105! 00050 10105 02105
I ! [ ]
I +[T.01-
I 40105
I REFER TO NET 214, 584 #1
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

00297] [00105
 00105] [00105
 02105 \ [00105

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	A	18355	ID44789
REV	G	SHEET	299

NETWORK: 00106 SEGMENT: 001

```

+ ] [ --- ] \ [ + ..... (L) - KEYSTROKE - HS3117
I 00298 02106! 00298
I      !
+-----] P [ +
I      03106
I
+ ] [ - ..... ( ) -
I 00298 00106
I
+ ] [ + [ ] - ] \ [ - ..... ( ) -
I 00106! 00050 10106 02106
I      ! [ ]
I      + [ T.01 -
I      40106
I
REFER TO NET 224, 584 #1
+ ] [ - ..... ( ) -
I 10123 03106
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

```

00298 ] [ 00106
00106 ] [ 00106
02106 ] \ [ 00106
03106 ] P [ 00106
  
```

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SIZE

A

FSCM NO.

18355

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REV

G

SHEET

300

NETWORK: 00107 SEGMENT: 001

```

+ ] [---] \ [ + ..... (L)- KEYSTROKE - HS3118
I 00299 02107! ..... 00299
I      !
+-----] P [ +
I      03107
I
+ ] [ - ..... ( )-
I 00299 ..... 00107
I
+ ] [ + [ ] - ] \ [ - ..... ( )-
I 00107! 00050 10107 ..... 02107
I      ! [ ]
I      + [ T.01 -
I      40107
I
+ ] [ - ..... ( )-
I 10122 ..... 03107
I      REFER TO NET 234, 584 #1
  
```

REF

COIL#	TYPE	CROSS REFERENCE BY NETWORKS:
00299] [00107
00107] [00107
02107] \ [00107
03107] P [00107

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SIZE

A

FSCM NO.

18355

DRAWING NO.

1D44789

REV

G

SHEET

300.1

NETWORK: 00108 SEGMENT: 001 584 #1 STATUS

```

+ ] [ + ] \ / - ..... (L) - KEYSTROKE - UI1999
I 00300! 02108 00300
I !
I + ..... ( ) -
I 00108
I
+ ] [ + [ ] - ] \ / - ..... ( ) -
I 00108! 00050 10108 02108
I ! [ ]
I + [ T.01 -
I 40108
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

00300] [00108
00108] [00108
02108] \ /	00108

NETWORK: 00109 SEGMENT: 001 SPARE

```

+ ] [ + ] \ / - ..... (L) -
I 00301! 02109 00301
I !
I + ..... ( ) -
I 00109
I
+ ] [ + [ ] - ] \ / - ..... ( ) -
I 00109! 00050 10109 02109
I ! [ ]
I + [ T.01 -
I 40109
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

00301] [00109
00109] [00109
02109] \ /	00109

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SIZE

A

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18355

DRAWING NO.

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REV

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SHEET

301

NETWORK: 00110 SEGMENT: 001 SPARE

```

+ ] [ + ] \ [ - ..... (L)-
I 00302! 02110 00302
I !
I + ..... ( )-
I 00110 00110
I
+ ] [ + [ ] - ] \ [ - ..... ( )-
I 00110! 00050 10110 02110
I ! [ ]
I + [ T.01 -
I 40110
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00302] I 00110
 00110] I 00110
 02110 \ I 00110

NETWORK: 00111 SEGMENT: 001 SPARE

```

+ ] [ + ] \ [ - ..... (L)-
I 00303! 02111 00303
I !
I + ..... ( )-
I 00111 00111
I
+ ] [ + [ ] - ] \ [ - ..... ( )-
I 00111! 00050 10111 02111
I ! [ ]
I + [ T.01 -
I 40111
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00303] I 00111
 00111] I 00111
 02111 \ I 00111

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MCDONNELL DOUGLAS

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18355

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REV

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SHEET

302

NETWORK: 00112 SEGMENT: 001 SPARE

```

+-] [+-] \[----- (L)-
I 00304! 02112 00304
I      !
I      +----- ( )-
I                                     00112
I
+-] [+-[ ]-- \[----- ( )-
I 00112! 00050 10112 02112
I      ! [ ]
I      +-[T.01-
I      40112
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00304] I 00112
 00112] I 00112
 02112 \ I 00112

NETWORK: 00113 SEGMENT: 001 SPARE

```

+-] [+-] \[----- (L)-
I 00305! 02113 00305
I      !
I      +----- ( )-
I                                     00113
I
+-] [+-[ ]-- \[----- ( )-
I 00113! 00050 10113 02113
I      ! [ ]
I      +-[T.01-
I      40113
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00305] I 00113
 00113] I 00113
 02113 \ I 00113

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303

NETWORK: 00114 SEGMENT: 001 SPARE

```

+ ] [ + ] \ [ - ..... (L)-
I 00306! 02114 00306
I !
I + ..... ( )-
I 00114 00114
I
+ ] [ + [ ] - \ [ - ..... ( )-
I 00114! 00050 10114 02114
I ! [ ]
I + [ T.01-
I 40114
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00306] [00114
 00114] [00114
 02114 \ [00114

NETWORK: 00115 SEGMENT: 001 SPARE

```

+ ] [ + ] \ [ - ..... (L)-
I 00307! 02115 00307
I !
I + ..... ( )-
I 00115 00115
I
+ ] [ + [ ] - \ [ - ..... ( )-
I 00115! 00050 10115 02115
I ! [ ]
I + [ T.01-
I 40115
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00307] [00115
 00115] [00115
 02115 \ [00115

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SIZE

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304

NETWORK: 00116 SEGMENT: 001 SPARE

```

+-] [+-] \[ - ..... (L)-
I 00308! 02116 00308
I !
I + ..... ( )-
I 00116
I
+-] [+-[ ]-] \[ - ..... ( )-
I 00116! 00050 10116 02116
I ! [ ]
I +-[T.01-
I 40116
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

```

00308 ] [ 00116
00116 ] [ 00116
02116 ] \ [ 00116
  
```

NETWORK: 00117 SEGMENT: 001 SPARE

```

+-] [+-] \[ - ..... (L)-
I 00309! 02117 00309
I !
I + ..... ( )-
I 00117
I
+-] [+-[ ]-] \[ - ..... ( )-
I 00117! 00050 10117 02117
I ! [ ]
I +-[T.01-
I 40117
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

```

00309 ] [ 00117
00117 ] [ 00117
02117 ] \ [ 00117
  
```

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	A	18355	1D44789
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NETWORK: 00118 SEGMENT: 001 SPARE

```

+-] [+-] \ [----- (L)-
I 00310! 02118 00310
I !
I +----- ( )-
I 00118 00118
I
+-] [+-[ ]-- \ [----- ( )-
I 00118! 00050 10118 02118
I ! [ ]
I +-[T.01-
I 40118
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00310 J I 00118
 00118 J I 00118
 02118 J \ I 00118

NETWORK: 00119 SEGMENT: 001 SPARE

```

+-] [+-] \ [----- (L)-
I 00311! 02119 00311
I !
I +----- ( )-
I 00119 00119
I
+-] [+-[ ]-- \ [----- ( )-
I 00119! 00050 10119 02119
I ! [ ]
I +-[T.01-
I 40119
I
  
```

REF

COIL# TYPE CROSS REFERENCE BY NETWORKS

00311 J I 00119
 00119 J I 00119
 02119 J \ I 00119

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SIZE A	FSCM NO. 18355	DRAWING NO. ID44789
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NETWORK: 00120 SEGMENT: 001 SPARE

```

←] [←] \[—.....—(L)-
I 00312! 02120 00312
I !
I +.....—( )-
I 00120
I
←] [←[ ]—] \[—.....—( )-
I 00120! 00050 10120 02120
I ! [ ]
I ←[T.01-
I 40120
I
  
```

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS
 00312 J [00120
 00120 J [00120
 02120 J \ [00120

NETWORK: 00121 SEGMENT: 001

 * EMPTY NETWORK * See Net 74, 584 #2

NETWORK: 00122 SEGMENT: 001

 * EMPTY NETWORK * See Net 107, 584 #2

NETWORK: 00123 SEGMENT: 001

 * EMPTY NETWORK * See Net 106, 584 #2

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307

NETWORK: 00124 SEGMENT: 001

* EMPTY NETWORK *

See Net 101, 584 #2

NETWORK: 00125 SEGMENT: 001

* EMPTY NETWORK *

See Net 100, 584 #2

NETWORK: 00126 SEGMENT: 001

* EMPTY NETWORK *

See Net 99, 584 #2

NETWORK: 00127 SEGMENT: 001

* EMPTY NETWORK *


See Net 98, 584 #2

NETWORK: 00128 SEGMENT: 001

* EMPTY NETWORK *

See Net 65, 584 #2

**** END OF LISTING ****

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS 	SIZE A	FSCM NO. 18355	DRAWING NO. 1D44789
	REV G	SHEET 308	

Output Coils (OXXXX)

MCDONNELL DOUGLAS ASTRONAUTICS CO.
HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

E

SHEET

312

CROSS REFERENCE OF COILS TO NETWORK#

00001	00004	00008	00012	00018	00022	00026	00029	00194	00000	00036
00011	00038	00097	00179	00188	00040	00042	00044	00048	00050	00033
00021	00000	00200	00204	00005	00009	00000	00031	00000	00000	00000
00031	00000	00000	00018	00019	00018	00000	00000	00000	00000	00000
00041	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00051	00000	00000	00000	00000	00000	00000	00000	00196	00000	00002
00061	00029	00026	00022	00176	00420	00000	00000	00046	00000	00000
00071	00000	00062	00000	00072	00075	00077	00079	00081	00083	00085
00081	00087	00089	00091	00093	00095	00099	00101	00103	00105	00107
00091	00109	00111	00113	00073	00116	00121	00126	00132	00143	00154
00101	00166	00065	00206	00208	00214	00224	00234	00000	00000	00000
00111	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00121	00069	00239	00229	00166	00154	00143	00132	00420	00000	00000
00131	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00141	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00151	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00161	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00171	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00181	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00191	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00201	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00211	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00221	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00231	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00241	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00251	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00261	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00271	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00281	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00291	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00301	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00311	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00321	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00331	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00341	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00351	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00361	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00371	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00381	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00391	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00401	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00411	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00421	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00431	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00441	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00451	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00461	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00471	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00481	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00491	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00501	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

18355

DRAWING NO.

1044789

REV

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SHEET

313

CROSS REFERENCE OF COILS TO NETWORK#

00511	00000	00000	00341	00343	00345	00000	00000	00296	00292	00288
00521	00300	00000	00304	00308	00312	00000	00317	00320	00324	00000
00531	00328	00332	00000	00000	00336	00339	00572	00000	00352	00354
00541	00356	00000	00358	00000	00000	00360	00364	00362	00000	00367
00551	00370	00373	00000	00376	00379	00463	00000	00466	00469	00472
00561	00000	00393	00393	00000	00400	00400	00000	00385	00385	00000
00571	00477	00480	00474	00000	00452	00000	00483	00487	00484	00486
00581	00489	00000	00000	00000	00405	00438	00000	00429	00443	00559
00591	00556	00553	00496	00499	00511	00526	00514	00529	00532	00535
00601	00538	00541	00544	00547	00000	00549	00000	00000	00576	00578
00611	00581	00584	00587	00590	00000	00594	00000	00000	00000	00000
00621	00000	00000	00409	00410	00413	00412	00414	00000	00000	00000
00631	00000	00253	00241	00243	00000	00000	00000	00000	00000	00000
00641	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00651	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00661	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00671	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00681	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00691	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00701	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00711	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00721	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00731	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00741	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00751	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00761	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00771	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00781	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00791	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00801	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00811	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00821	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00831	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00841	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00851	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00861	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00871	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00881	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00891	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00901	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00911	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00921	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00931	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00941	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00951	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00961	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00971	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00981	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
00991	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01001	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01011	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

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FSCM NO.

18355

DRAWING NO.

1044789

REV

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CROSS REFERENCE OF COILS TO NETWORK#

01021	00000	00000	00000	00000	00029	00000	00000	00000	00022	00000
01031	00000	00000	00000	00026	00018	00000	00000	00000	00204	00000
01041	00012	00008	00004	00038	00036	00200	00097	00000	00000	00000
01051	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01061	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01071	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01081	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01091	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01101	00256	00256	00256	00000	00000	00000	00000	00000	00000	00000
01111	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01121	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01131	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01141	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01151	00000	00000	00056	00040	00058	00052	00000	00042	00044	00046
01161	00000	00000	00000	00000	00000	00000	00048	00050	00000	00000
01171	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01181	00000	00000	00000	00000	00242	00054	00070	00071	00000	00000
01191	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01201	00258	00258	00258	00000	00000	00000	00000	00000	00000	00000
01211	00000	00000	00000	00000	00000	00000	00113	00000	00000	00000
01221	00000	00229	00239	00075	00073	00000	00077	00103	00206	00208
01231	00000	00000	00111	00109	00107	00105	00101	00145	00134	00156
01241	00168	00126	00000	00000	00000	00000	00000	00000	00081	00214
01251	00079	00000	00000	00000	00000	00000	00000	00000	00000	00000
01261	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01271	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01281	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01291	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01301	00260	00260	00260	00000	00000	00000	00000	00000	00000	00000
01311	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01321	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01331	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01341	00000	00000	00000	00000	00083	00085	00091	00093	00122	00095
01351	00099	00087	00089	00000	00117	00000	00000	00000	00000	00000
01361	00062	00062	00033	00033	00000	00000	00000	00000	00000	00000
01371	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01381	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01391	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01401	00314	00314	00314	00000	00000	00000	00000	00000	00559	00558
01411	00556	00555	00348	00349	00421	00423	00295	00296	00291	00292
01421	00188	00188	00336	00335	00000	00000	00000	00000	00000	00000
01431	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
01441	00480	00474	00339	00338	00352	00352	00360	00360	00000	00000
01451	00000	00000	00000	00000	00000	00000	00373	00373	00364	00364
01461	00367	00367	00376	00376	00000	00000	00000	00000	00000	00000
01471	00000	00000	00000	00253	00354	00354	00356	00356	00358	00358
01481	00000	00000	00000	00000	00000	00000	00000	00000	00552	00553
01491	00495	00496	00498	00499	00185	00183	00000	00000	00000	00000
01501	00000	00000	00000	00000	00510	00511	00513	00514	00525	00526
01511	00528	00529	00000	00000	00000	00000	00000	00000	00000	00000
01521	00370	00370	00379	00379	00341	00343	00451	00000	00000	00000

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

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FSCM NO.

18355

DRAWING NO.

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CROSS REFERENCE OF COILS TO NETWORK#

01531	00000	00000	00000	00000	00000	00000	00000	00579	00582	00000	00591
01541	00471	00472	00594	00594	00000	00000	00000	00000	00000	00000	00000
01551	00000	00000	00462	00463	00465	00466	00468	00469	00585	00588	
01561	00000	00000	00000	00000	00000	00000	00000	00000	00323	00324	
01571	00316	00317	00362	00362	00331	00332	00000	00000	00000	00000	
01581	00000	00000	00000	00000	00327	00328	00319	00320	00452	00000	
01591	00570	00571	00000	00000	00000	00000	00000	00000	00000	00000	
01601	00531	00532	00534	00535	00537	00538	00540	00541	00000	00000	
01611	00000	00000	00000	00000	00000	00000	00544	00543	00031	00001	
01621	00001	00000	00061	00000	00000	00000	00000	00000	00000	00000	
01631	00000	00000	00299	00300	00303	00304	00307	00308	00311	00312	
01641	00454	00454	00456	00456	00458	00458	00460	00460	00000	00000	
01651	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01661	00000	00000	00000	00000	00190	00000	00065	00065	00000	00246	
01671	00248	00247	00000	00000	00000	00000	00000	00000	00000	00000	
01681	00483	00486	00484	00483	00409	00410	00487	00486	00000	00000	
01691	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01701	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01711	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01721	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01731	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01741	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01751	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01761	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01771	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01781	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01791	00000	00000	00000	00391	00390	00392	00489	00000	00287	00288	
01801	00000	00000	00000	00000	00000	00000	00000	00000	00000	00398	
01811	00397	00399	00412	00413	00414	00410	00000	00000	00000	00000	
01821	00000	00000	00000	00000	00000	00383	00382	00384	00000	00000	
01831	00550	00549	00000	00000	00000	00000	00000	00000	00000	00000	
01841	00000	00000	00000	00437	00438	00477	00000	00000	00000	00000	
01851	00000	00000	00000	00000	00000	00000	00000	00000	00000	00404	
01861	00405	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01871	00000	00000	00546	00547	00442	00441	00000	00000	00428	00427	
01881	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01891	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01901	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01911	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01921	00176	00176	00186	00186	00000	00000	00200	00200	00000	00000	
01931	00028	00028	00000	00000	00000	00000	00000	00000	00000	00000	
01941	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01951	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
01961	00000	00000	00000	00000	00000	00000	00000	00000	00018	00018	
01971	00000	00011	00186	00186	00184	00187	00189	00189	00000	00191	
01981	00040	00042	00044	00048	00040	00040	00042	00042	00044	00044	
01991	00034	00034	00052	00052	00059	00059	00056	00056	00000	00000	
02001	00029	00029	00001	00201	00202	00202	00202	00201	00201	00201	
02011	00201	00201	00201	00201	00050	00000	00050	00050	00000	00192	
02021	00189	00189	00048	00048	00192	00034	00187	00028	00204	00031	
02031	00191	00191	00000	00000	00000	00000	00000	00000	00000	00000	

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

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ID44789

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CROSS REFERENCE OF COILS TO NETWORK#

02041	00000	00000	00000	00000	00000	00000	00000	00000	00000	00418	00418
02051	00424	00424	00131	00131	00139	00138	00142	00142	00150	00149	
02061	00153	00153	00161	00160	00165	00165	00173	00172	00000	00000	
02071	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02081	00205	00205	00000	00000	00000	00000	00000	00000	00000	00000	
02091	00000	00000	00424	00424	00424	00419	00225	00225	00235	00235	
02101	00000	00046	00046	00046	00214	00228	00228	00000	00063	00063	
02111	00238	00238	00070	00070	00118	00068	00123	00000	00128	00128	
02121	00128	00128	00137	00138	00138	00138	00148	00149	00149	00149	
02131	00159	00160	00160	00160	00171	00172	00172	00172	00211	00211	
02141	00211	00211	00210	00210	00210	00210	00210	00210	00210	00066	
02151	00066	00066	00214	00214	00063	00072	00206	00208	00211	00000	
02161	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02171	00000	00000	00000	00000	00000	00000	00568	00568	00572	00572	
02181	00430	00430	00431	00431	00444	00444	00445	00445	00000	00000	
02191	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02201	00183	00424	00247	00247	00249	00183	00183	00249	00416	00416	
02211	00248	00248	00000	00000	00000	00371	00000	00000	00000	00000	
02221	00431	00297	00297	00445	00293	00293	00445	00289	00289	00289	
02231	00301	00301	00301	00305	00305	00305	00309	00309	00309	00445	
02241	00553	00313	00313	00313	00496	00318	00318	00318	00499	00321	
02251	00321	00321	00511	00325	00325	00325	00514	00329	00329	00329	
02261	00526	00333	00333	00333	00529	00363	00363	00532	00350	00350	
02271	00350	00000	00365	00336	00353	00353	00535	00355	00355	00538	
02281	00357	00357	00541	00359	00359	00544	00361	00361	00547	00365	
02291	00365	00546	00368	00368	00546	00371	00371	00549	00374	00374	
02301	00550	00377	00377	00465	00377	00380	00380	00550	00462	00462	
02311	00462	00547	00465	00465	00465	00548	00468	00468	00468	00338	
02321	00471	00471	00471	00592	00592	00390	00391	00572	00368	00393	
02331	00393	00393	00000	00400	00400	00400	00560	00397	00557	00398	
02341	00556	00557	00382	00576	00383	00559	00560	00385	00385	00385	
02351	00451	00477	00570	00480	00474	00246	00451	00431	00595	00595	
02361	00487	00483	00439	00406	00406	00406	00439	00439	00000	00000	
02371	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02381	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02391	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02401	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02411	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02421	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02431	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02441	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02451	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02461	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02471	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02481	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02491	00000	00000	00000	00000	00000	00000	00000	00000	00000	00001	
02501	00001	00002	00002	00000	00000	00000	00000	00000	00000	00000	
02511	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02521	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02531	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
02541	00000	00000	00000	00000	00000	00000	00000	00000	00000	00351	

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE

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DRAWING NO.

1044789

REV

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CROSS REFERENCE OF COILS TO NETWORK#

02551	00197	00197	00197	00198	00198	00198	00198	00000	00000	00000
02561	00000	00000	00000	00000	00000	00000	00000	00000	00000	00197
02571	00197	00000	00000	00000	00000	00000	00000	00000	00000	00000
02581	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02591	00000	00000	00000	00000	00000	00000	00000	00000	00000	00574
02601	00574	00574	00574	00575	00575	00575	00000	00000	00000	00000
02611	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02621	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02631	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02641	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02651	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02661	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02671	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02681	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02691	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02701	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02711	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02721	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02731	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02741	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02751	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02761	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02771	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02781	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02791	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02801	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02811	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02821	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02831	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02841	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02851	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02861	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02871	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02881	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02891	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02901	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02911	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02921	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02931	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02941	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02951	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02961	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02971	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02981	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
02991	00000	00000	00000	00000	00000	00000	00000	00000	00000	00031
03001	00003	00004	00009	00008	00011	00012	00016	00015	00015	00017
03011	00016	00016	00019	00021	00021	00023	00025	00025	00027	00013
03021	00005	00005	00009	00009	00017	00007	00007	00022	00097	00000
03031	00180	00178	00178	00178	00000	00181	00182	00182	00182	00187
03041	00183	00184	00184	00202	00000	00181	00188	00188	00190	00190
03051	00180	00177	00177	00000	00179	00193	00193	00193	00177	00177

MCDONNELL DOUGLAS ASTRONAUTICS CO.
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03061	00194	00194	00180	00180	00194	00195	00195	00195	00028
03071	00026	00028	00028	00024	00024	00196	00196	00000	00030
03081	00030	00030	00000	00000	00000	00000	00000	00000	00000
03091	00000	00000	00000	00000	00199	00199	00000	00000	00000
03101	00040	00000	00000	00000	00042	00000	00000	00000	00044
03111	00000	00000	00048	00000	00000	00000	00050	00000	00000
03121	00000	00000	00000	00000	00000	00000	00000	00000	00056
03131	00000	00000	00000	00000	00000	00000	00000	00000	00000
03141	00000	00000	00000	00000	00000	00000	00000	00000	00033
03151	00000	00000	00033	00000	00000	00000	00000	00000	00000
03161	00000	00000	00000	00000	00000	00000	00000	00000	00000
03171	00000	00000	00000	00000	00000	00000	00000	00000	00000
03181	00000	00000	00000	00000	00000	00000	00000	00000	00000
03191	00000	00000	00000	00000	00000	00000	00000	00000	00000
03201	00000	00000	00000	00000	00000	00000	00000	00000	00000
03211	00000	00000	00000	00000	00000	00000	00000	00000	00000
03221	00000	00000	00000	00000	00000	00000	00000	00000	00000
03231	00000	00000	00000	00000	00000	00000	00000	00000	00000
03241	00000	00000	00000	00000	00000	00000	00000	00000	00000
03251	00000	00000	00000	00000	00000	00000	00000	00000	00000
03261	00000	00000	00000	00000	00000	00000	00000	00000	00000
03271	00000	00000	00000	00000	00000	00000	00000	00000	00000
03281	00000	00000	00000	00000	00000	00000	00000	00000	00000
03291	00000	00000	00000	00000	00000	00000	00000	00000	00000
03301	00000	00000	00000	00000	00000	00000	00000	00000	00000
03311	00000	00000	00000	00000	00000	00000	00000	00000	00000
03321	00000	00000	00000	00000	00000	00000	00000	00000	00000
03331	00000	00000	00000	00000	00000	00000	00000	00000	00000
03341	00000	00000	00000	00000	00000	00000	00000	00000	00000
03351	00000	00000	00000	00000	00000	00000	00000	00000	00000
03361	00000	00000	00000	00000	00000	00000	00000	00000	00000
03371	00000	00000	00000	00000	00000	00000	00000	00000	00000
03381	00000	00000	00000	00000	00000	00000	00000	00000	00000
03391	00000	00000	00000	00000	00000	00000	00000	00000	00000
03401	00000	00000	00000	00000	00000	00000	00000	00000	00000
03411	00000	00000	00000	00000	00000	00000	00000	00000	00000
03421	00000	00000	00000	00000	00000	00000	00000	00000	00000
03431	00000	00000	00000	00000	00000	00000	00000	00000	00000
03441	00000	00000	00000	00000	00000	00000	00000	00000	00000
03451	00000	00000	00000	00000	00000	00000	00000	00000	00000
03461	00000	00000	00000	00000	00000	00000	00000	00000	00000
03471	00000	00000	00000	00000	00000	00000	00000	00000	00000
03481	00000	00000	00000	00000	00000	00000	00000	00000	00000
03491	00000	00000	00000	00000	00000	00000	00000	00000	00000
03501	00000	00000	00000	00000	00000	00000	00000	00000	00000
03511	00000	00000	00000	00000	00000	00000	00000	00000	00000
03521	00000	00000	00000	00000	00000	00000	00000	00000	00000
03531	00000	00000	00000	00000	00000	00000	00000	00000	00000
03541	00000	00000	00000	00000	00000	00000	00000	00000	00000
03551	00000	00000	00000	00000	00000	00000	00000	00000	00000
03561	00000	00000	00000	00000	00000	00000	00000	00000	00000

MCDONNELL DOUGLAS ASTRONAUTICS CO.
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CROSS REFERENCE OF COILS TO NETWORK#

03571	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03581	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03591	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03601	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03611	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03621	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03631	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03641	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03651	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03661	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03671	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03681	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03691	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03701	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03711	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03721	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03731	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03741	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03751	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03761	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03771	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03781	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03791	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03801	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03811	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03821	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03831	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03841	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03851	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03861	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03871	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03881	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03891	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03901	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03911	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03921	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03931	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03941	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03951	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03961	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03971	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03981	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
03991	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04001	00214	00000	00000	00000	00000	00000	00069	00000	00000	00046
04011	00000	00000	00069	00000	00000	00071	00000	00000	00000	00000
04021	00000	00062	00062	00000	00000	00065	00065	00068	00068	00000
04031	00071	00070	00071	00000	00000	00000	00000	00000	00000	00000
04041	00087	00089	00091	00093	00095	00099	00000	00000	00000	00000
04051	00000	00000	00000	00115	00000	00000	00116	00116	00116	00116
04061	00117	00117	00000	00000	00000	00000	00000	00000	00000	00120
04071	00000	00000	00121	00121	00121	00121	00122	00122	00000	00000

MCDONNELL DOUGLAS ASTRONAUTICS CO.
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04081	00000	00125	00000	00127	00000	00000	00127	00000	00000	00000
04091	00133	00000	00133	00133	00136	00135	00137	00137	00000	00133
04101	00136	00132	00136	00132	00147	00143	00000	00000	00144	00144
04111	00146	00144	00147	00147	00148	00148	00144	00000	00143	00000
04121	00000	00000	00000	00000	00158	00154	00000	00000	00155	00155
04131	00157	00155	00158	00000	00159	00159	00155	00000	00154	00000
04141	00000	00000	00000	00158	00170	00166	00000	00000	00167	00167
04151	00169	00167	00170	00170	00171	00171	00167	00000	00166	00132
04161	00143	00154	00166	00000	00000	00000	00000	00000	00000	00000
04171	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04181	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04191	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04201	00419	00420	00420	00421	00422	00422	00423	00420	00000	00000
04211	00000	00000	00000	00000	00000	00000	00000	00000	00000	00221
04221	00222	00113	00000	00000	00000	00223	00223	00223	00223	00224
04231	00224	00226	00226	00226	00227	00228	00228	00225	00225	00231
04241	00232	00073	00225	00226	00229	00233	00233	00233	00233	00234
04251	00234	00236	00236	00236	00237	00238	00238	00235	00235	00229
04261	00236	00239	00235	00239	00000	00000	00000	00000	00000	00000
04271	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04281	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04291	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04301	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04311	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04321	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04331	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04341	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04351	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04361	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04371	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04381	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04391	00000	00000	00000	00000	00000	00000	00000	00000	00000	00204
04401	00000	00000	00000	00000	00206	00000	00000	00000	00000	00208
04411	00000	00000	00000	00000	00211	00000	00000	00000	00000	00000
04421	00205	00205	00000	00000	00000	00000	00000	00000	00000	00000
04431	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04441	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04451	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04461	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04471	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04481	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04491	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04501	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04511	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04521	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04531	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04541	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04551	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04561	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04571	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04581	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000

MCDONNELL DOUGLAS ASTRONAUTICS CO.
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04591	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04601	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04611	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04621	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04631	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04641	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04651	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04661	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04671	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04681	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04691	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04701	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04711	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04721	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04731	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04741	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04751	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04761	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04771	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04781	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04791	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04801	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04811	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04821	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04831	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04841	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04851	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04861	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04871	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04881	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04891	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04901	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04911	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04921	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04931	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04941	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04951	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04961	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04971	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04981	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
04991	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05001	00604	00000	00000	00000	00000	00000	00000	00000	00000	00000
05011	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05021	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05031	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05041	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05051	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05061	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05071	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05081	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05091	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000

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05101	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05111	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05121	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05131	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05141	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05151	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05161	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05171	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05181	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05191	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05201	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05211	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05221	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05231	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05241	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05251	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05261	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05271	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05281	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05291	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05301	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05311	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05321	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05331	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05341	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05351	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05361	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05371	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05381	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05391	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05401	00601	00602	00603	00000	00000	00000	00000	00000	00000	00000
05411	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05421	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05431	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05441	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05451	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05461	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05471	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05481	00000	00000	00000	00000	00000	00000	00000	00000	00000	00611
05491	00611	00610	00610	00609	00609	00608	00608	00607	00607	00606
05501	00251	00251	00252	00253	00245	00245	00246	00243	00243	00242
05511	00241	00241	00000	00000	00000	00244	00244	00244	00244	00253
05521	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05531	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05541	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05551	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05561	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05571	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05581	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05591	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05601	00437	00438	00437	00000	00000	00427	00000	00000	00429	00433

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05611	00433	00429	00441	00429	00000	00447	00447	00446	00432	00443
05621	00443	00443	00570	00569	00569	00571	00572	00559	00558	00556
05631	00555	00553	00552	00496	00495	00499	00498	00000	00511	00510
05641	00514	00513	00526	00525	00529	00528	00447	00532	00531	00535
05651	00534	00447	00538	00537	00541	00540	00544	00543	00448	00547
05661	00546	00549	00550	00433	00433	00576	00434	00000	00000	00000
05671	00000	00000	00573	00573	00573	00000	00348	00446	00349	00394
05681	00394	00000	00543	00000	00000	00486	00560	00432	00401	00401
05691	00000	00386	00386	00552	00000	00495	00498	00510	00000	00513
05701	00525	00528	00531	00534	00537	00540	00546	00549	00000	00000
05711	00484	00000	00000	00478	00478	00390	00000	00000	00000	00000
05721	00555	00557	00558	00404	00451	00452	00000	00412	00414	00000
05731	00413	00000	00000	00451	00000	00000	00000	00000	00000	00000
05741	00551	00000	00000	00000	00000	00000	00000	00000	00000	00000
05751	00578	00578	00583	00583	00584	00584	00587	00587	00590	00590
05761	00587	00576	00576	00577	00577	00577	00577	00000	00000	00000
05771	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05781	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05791	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05801	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05811	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05821	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05831	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05841	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05851	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05861	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05871	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05881	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05891	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05901	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05911	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05921	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05931	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05941	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05951	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05961	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05971	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05981	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
05991	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
06001	00295	00296	00291	00292	00287	00288	00299	00300	00303	00304
06011	00307	00308	00311	00312	00316	00317	00319	00320	00323	00324
06021	00327	00328	00331	00332	00581	00335	00335	00336	00338	00339
06031	00341	00343	00345	00345	00346	00346	00347	00347	00442	00000
06041	00595	00595	00584	00000	00000	00000	00000	00000	00000	00463
06051	00462	00466	00465	00469	00468	00472	00471	00391	00392	00397
06061	00398	00399	00382	00383	00384	00477	00439	00409	00452	00442
06071	00487	00486	00483	00484	00489	00428	00428	00404	00405	00406

MCDONNELL DOUGLAS ASTRONAUTICS CO.
 HUNTINGTON BEACH, CALIF.

MCDONNELL DOUGLAS

SIZE	FSCM NO.	DRAWING NO.
A	18355	1D44789
REV	G	SHEET 324

INPUT REGISTERS (1XXX)

MCDONNELL DOUGLAS AERONAUTICS CO.
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MCDONNELL DOUGLAS

SIZE

A

FSCM NO.

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SHEET

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CROSS REFERENCE OF DISCRETE INPUTS

REF
COIL# TYPE CROSS REFERENCE BY NETWORKS

10001 J I 00004
10002 J I 00008
10003 J I 00012
10004 J I 00018
10005 J I 00022
10006 J I 00026
10007 J I 00029
10008 J I 00194
10010 J I 00036
10011 J I 00038
10012 J I 00097
10013 J I 00179
10014 J I 00188
10015 J I 00040
10016 J I 00042
10017 J I 00044
10018 J I 00048
10019 J I 00050
10020 J I 00033
10022 J I 00200
10023 J I 00204
10027 J I 00031
10059 J I 00001
10060 J I 00002
10065 J I 00420
10068 J I 00046
10072 J I 00062
10074 J I 00072
10075 J I 00075
10076 J I 00077
10077 J I 00079
10078 J I 00081
10079 J I 00083
10080 J I 00085
10081 J I 00087
10082 J I 00089
10083 J I 00091
10084 J I 00093
10085 J I 00095
10086 J I 00099
10087 J I 00101
10088 J I 00103
10089 J I 00105
10090 J I 00107
10091 J I 00109
10092 J I 00111
10093 J I 00113

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326

CROSS REFERENCE OF DISCRETE INPUTS

10094 J [00073
10095 J [00116
10096 J [00121
10097 J [00126
10098 J [00132
10099 J [00143
10100 J [00154
10101 J [00166
10102 J [00065
10103 J [00206
10104 J [00208
10105 J [00214
10106 J [00224
J\ 00229
10107 J [00234
J\ 00239

**** END OF LISTING ****

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326.1

CROSS REFERENCE OF DISCRETE INPUTS

REF
 COIL# TYPE CROSS REFERENCE BY NETWORKS

11057 J [00242
 J\ [00036,00038,00243
 11058 J\ [00056
 11059 J [00199
 11060 J [00199
 11061 J [00018
 11062 J [00018
 11063 J [00029
 J\ [00030
 11064 J [00029
 11076 J [00201
 11079 J [00201
 11080 J [00201
 11081 J [00201
 11082 J [00201
 11083 J [00201
 11084 J [00201
 11085 J [00202
 11086 J [00202
 11087 J [00202
 11088 J [00202
 11185 J [00056,00058
 11186 J\ [00040
 11187 J [00040
 11188 J [00040
 11189 J [00059
 11190 J [00059
 11191 J [00052
 11192 J [00052
 11193 J [00052
 11194 J\ [00042
 11195 J [00042
 11196 J [00042
 11197 J\ [00044
 11198 J [00044
 11199 J [00044
 11201 J [00214
 J\ [00214
 11202 J [00214
 J\ [00214
 11204 J\ [00046
 11205 J\ [00048
 11206 J [00050
 11207 J [00050
 11209 J [00070
 11210 J [00068-00070
 J\ [00071

MCDONNELL DOUGLAS ASTRONAUTICS CO.
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CROSS REFERENCE OF DISCRETE INPUTS

11211 J E 00225,00228
 11212 J E 00225,00228
 11213 J E 00235,00238
 11214 J E 00235,00238
 11215 J E 00072
 11219 J E 00210
 11220 J E 00210
 11223 J E 00211
 11224 J E 00210
 11225 J E 00210
 11226 J E 00210
 11227 J E 00210
 11228 J E 00210
 11229 J E 00211
 11230 J E 00211
 11231 J E 00211
 11232 J E 00211
 11233 J E 00048
 11234 J E 00048
 11235 J E 00050
 11236 J E 00050
 11237 J E 00046
 11238 J E 00046
 11313 J E 00132,00134
 JVE 00135,00138
 11314 J E 00143,00145
 JVE 00146,00149
 11315 J E 00154,00156
 JVE 00157,00160
 11316 J E 00166,00168
 JVE 00169,00172
 11317 JVE 00126,00128
 11318 J E 00063
 11319 J E 00063
 11320 J E 00063
 11321 J E 00034,00066
 11322 J E 00034,00066
 11323 J E 00034
 11441 JVE 00297
 11442 J E 00296
 JVE 00297
 11443 JVE 00293
 11444 J E 00292
 JVE 00293
 11445 JVE 00189
 11446 J E 00178
 JVE 00189
 11447 J E 00423-00424
 11450 JVE 00352-00353
 11451 JVE 00352-00353
 11452 JVE 00360-00361

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CROSS REFERENCE OF DISCRETE INPUTS

- 11453 JNC 00360-00361
- 11454 JNC 00354-00355
- 11455 JNC 00355
- 11457 JNC 00356-00357
- 11458 J I 00356
- JNC 00356-00357
- 11459 JNC 00358-00359
- 11460 JNC 00358-00359
- 11461 JNC 00373-00374
- 11462 JNC 00373-00374
- 11463 JNC 00364-00365
- 11464 JNC 00364-00365
- 11465 JNC 00367-00368
- 11466 JNC 00367-00368
- 11467 JNC 00376-00377
- 11468 JNC 00376-00377
- 11469 JNC 00370-00371
- 11470 JNC 00370-00371
- 11471 JNC 00379-00380
- 11472 JNC 00379-00380
- 11473 J I 00349-00350
- JNC 00341,00343,00345
- 11474 J I 00350
- 11475 J I 00350
- 11476 J I 00333
- 11478 J I 00348
- JNC 00349
- 11481 JNC 00333
- 11482 J I 00332
- JNC 00333
- 11483 J I 00560
- JNC 00558
- JPI 00558
- 11484 J I 00557,00561
- JNC 00555
- JPI 00555
- 11485 J I 00559
- JNC 00560
- 11486 J I 00558,00560
- JNC 00558
- 11487 J I 00556,00561
- JNC 00557
- 11488 J I 00555,00557,00562
- JNC 00555
- 11489 J I 00553
- JNC 00552
- 11490 J I 00496
- JNC 00495
- 11491 J I 00499
- JNC 00498
- 11493 J I 00511

<p>MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF.</p> <p style="text-align: center;">MCDONNELL DOUGLAS</p>	SIZE	FSCM NO.	DRAWING NO.
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CROSS REFERENCE OF DISCRETE INPUTS

JVC 00510
11494 J I 00514
JVC 00513
11495 J I 00526
JVC 00525
11496 J I 00529
JVC 00528
11497 J I 00532
JVC 00531
11498 J I 00535
JVC 00534
11499 J I 00538
JVC 00537
11500 J I 00541
JVC 00540
11501 J I 00544
JVC 00543
11537 J I 00462
11538 J I 00462
11539 J I 00462-00463,00578
11540 J I 00463,00465-00466,00469,00472
JVC 00462,00465,00468,00471
11541 J I 00465
11542 J I 00465
11543 J I 00465-00466,00581
11544 J I 00468
11545 J I 00468
11546 J I 00468-00469,00584,00587
11547 J I 00471
11548 J I 00471
11549 J I 00471-00472
11550 JVC 00595
11551 JVC 00595
11553 J I 00301
11554 JVC 00301
11555 J I 00300
JVC 00301
11556 J I 00305
11557 JVC 00305
11558 J I 00304
JVC 00305
11559 J I 00309
11560 J I 00308
JVC 00309
11561 JVC 00309
11562 J I 00313
11563 JVC 00313
11564 J I 00312
JVC 00313
11565 J I 00325
11566 JVC 00325

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CROSS REFERENCE OF DISCRETE INPUTS

11567 J I 00324
 JVI 00325
 11569 J I 00317
 11570 JVI 00317
 11571 J I 00316
 JVI 00317
 11573 JVI 00362-00363
 11574 JVI 00362-00363
 11575 J I 00421
 11578 J I 00329
 11579 JVI 00329
 11580 J I 00328
 JVI 00329
 11581 J I 00321
 11582 JVI 00321
 11583 J I 00320
 JVI 00321
 11585 J I 00451
 11587 J I 00451
 11590 JVI 00576
 11591 J I 00480
 11592 J I 00474
 11593 J I 00420,00424
 JVI 00420,00423
 11594 J I 00424
 11595 J I 00367-00368
 11596 J I 00364-00365
 11597 J I 00376-00377
 11598 J I 00370-00371
 11697 JVI 00054
 11698 J I 00056
 11699 J I 00056
 11700 J I 00187
 11701 J I 00187
 11702 J I 00190
 11703 J I 00177,00179,00181,00184,00186,00191,00193
 JVI 00176,00191-00192
 JPI 00188
 11704 J I 00183,00186-00187,00195
 JVI 00190
 11706 J I 00182
 11709 J I 00183
 11710 J I 00178
 JVI 00191
 11713 J I 00183
 11714 J I 00194
 11715 J I 00194
 11718 J I 00246,00248-00249
 JVI 00247-00249
 11719 J I 00246-00247,00249
 JVI 00247-00249

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331

CROSS REFERENCE OF DISCRETE INPUTS

11721 JAE 00182
 11722 J E 00190
 11723 J E 00187
 11728 J E 00066
 11729 J E 00474,00480,00570,00572-00573
 JAE 00572-00573
 11730 J E 00335-00336
 11731 J E 00487
 JAE 00486
 11734 J E 00483-00484
 JAE 00484
 11735 J E 00338-00339,00594
 JAE 00594
 11736 J E 00571-00572
 11737 J E 00578,00581,00584,00587,00590,00592
 11738 J E 00592
 11739 J E 00576
 11740 J E 00576
 11741 J E 00578,00581,00584,00587,00590
 11793 J E 00391,00393
 JAE 00394
 11794 J E 00390-00391,00393
 JAE 00394
 11796 J E 00393
 JAE 00393
 11797 J E 00393
 JAE 00393
 11798 J E 00393
 JAE 00393
 11799 J E 00398,00400
 JAE 00401
 11800 J E 00397-00398,00400
 JAE 00401
 11802 J E 00400
 JAE 00400
 11803 J E 00400
 JAE 00400
 11804 J E 00400
 JAE 00400
 11805 JAE 00289
 11806 J E 00288
 JAE 00289
 11807 J E 00289
 11809 J E 00383,00385
 JAE 00386
 11810 J E 00382-00383,00385
 JAE 00386
 11812 J E 00385
 JAE 00385
 11813 J E 00385
 JAE 00385

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SHEET

332

CROSS REFERENCE OF DISCRETE INPUTS

REF	COIL#	TYPE	CROSS REFERENCE BY NETWORKS
	11814	J I	00385
		J V	00385
	11815	J I	00428,00431,00433
	11816	J I	00429,00431-00432
	11817	J I	00429,00431,00433,00437,00439,00477
		J V	00432
	11818	J I	00433
		J V	00439
	11819	J I	00427,00433,00438
		J V	00439
	11820	J I	00439
	11821	J I	00477
		J V	00478
	11824	J I	00547
	11825	J I	00442,00445,00447
	11826	J I	00443,00445
	11827	J I	00404,00406,00443,00445,00447,00477
		J V	00446
	11828	J I	00447
		J V	00406,00446
	11829	J I	00405-00406,00441,00447
	11830	J I	00406
	11831	J I	00548
	11832	J I	00546
	11834	J I	00546-00547
	11835	J I	00546
	11836	J I	00550
	11838	J I	00549
		J V	00549
	11839	J I	00550
	11840	J I	00445
	11921	JPI	00176
	11922	J I	00181
	11923	J I	00177,00179,00184-00185,00197
		J V	00191-00192
	11928	J V	00028
	11929	J I	00028
	11945	J I	00204
	11946	J I	00031
	11985	JPI	00418
	11986	J I	00421
	11987	J I	00422-00423
	11988	JPI	00131
	11989	J I	00132
	11990	J I	00133,00135,00137
	11991	JPI	00142
	11992	J I	00143

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SHEET

333

CROSS REFERENCE OF DISCRETE INPUTS

11993 J I 00144,00146,00148
11994 JPI 00153
11995 J I 00154
11996 J I 00155,00157,00159
11997 JPI 00165
11998 J I 00166
11999 J I 00167,00169,00171
12009 J I 00206
12010 J I 00208
12049 JPI 00568
12050 J I 00570
12051 J I 00571-00572,00575
12052 JPI 00430
12053 J I 00427
12054 J I 00428,00432
12055 JPI 00444
12056 J I 00441
12057 J I 00442,00446

**** END OF LISTING ****

MCDONNELL DOUGLAS ASTRONAUTICS CO.
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334

ANALOG INPUTS (3XXXX)

MCDONNELL DOUGLAS ASTRONAUTICS CO.
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335

CROSS REFERENCE OF INPUT REGISTERS

REG # TYPE CROSS REFERENCE BY NETWORK #

30011 00256
30021 00258
30031 00260
30041 00262

***** END OF LISTING *****

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HOLDING REGISTERS (4XXXX)

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SHEET

337

CROSS REFERENCE OF OUTPUT/HOLDING REGISTERS

REG # TYPE CROSS REFERENCE BY NETWORK #

40010 OUT 00256
 40020 OUT 00258
 40030 OUT 00260
 40040 OUT 00314
 40100 OUT 00256
 40101 OUT 00256
 40102 OUT 00256
 40103 OUT 00256
 40104 OUT 00256
 40105 OUT 00256
 40106 OUT 00256
 40107 OUT 00256
 40108 OUT 00256
 40200 OUT 00258
 40201 OUT 00258
 40202 OUT 00258
 40203 OUT 00258
 40204 OUT 00258
 40205 OUT 00258
 40206 OUT 00258
 40207 OUT 00258
 40208 OUT 00258
 40209 OUT 00258
 40210 OUT 00258
 40211 OUT 00258
 40212 OUT 00258
 40300 OUT 00260
 40301 OUT 00260
 40302 OUT 00260
 40303 OUT 00260
 40304 OUT 00260
 40400 OUT 00314
 40401 OUT 00314
 40402 OUT 00314
 40403 OUT 00314
 40404 OUT 00314
 40405 OUT 00314
 40406 OUT 00314
 40407 OUT 00314
 40408 OUT 00314
 40409 OUT 00314
 40410 OUT 00314
 40411 OUT 00314
 40412 OUT 00314
 40413 OUT 00314
 40414 OUT 00314
 40415 OUT 00314
 40416 OUT 00314

MCDONNELL DOUGLAS ASTRONAUTICS CO. HUNTINGTON BEACH, CALIF. MCDONNELL DOUGLAS	SIZE	FSCM NO.	DRAWING NO.
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CROSS REFERENCE OF OUTPUT/HOLDING REGISTERS

REG # TYPE CROSS REFERENCE BY NETWORK #

43000 OUT 00031
 43002 OUT 00003
 43003 OUT 00001
 43017 OUT 00005
 43018 OUT 00009
 43019 OUT 00013
 43020 OUT 00017
 43021 OUT 00022
 43022 OUT 00024
 43023 OUT 00026
 43024 OUT 00028
 43025 OUT 00177
 43030 OUT 00176
 43032 OUT 00182
 43033 OUT 00183
 43035 OUT 00192
 43036 OUT 00192
 43038 OUT 00188
 43039 OUT 00188
 43041 OUT 00180
 43042 OUT 00180
 43043 OUT 00177
 43046 OUT 00179
 43047 OUT 00193
 43048 OUT 00193
 43049 OUT 00193
 43051 OUT 00195
 43052 OUT 00561
 43070 OUT 00191
 43071 OUT 00191
 43080 OUT 00030
 43081 OUT 00030
 43100 OUT 00040
 43101 OUT 00042
 43102 OUT 00044
 43103 OUT 00048
 43104 OUT 00050
 43110 OUT 00056
 43111 OUT 00056
 43120 OUT 00033
 43121 OUT 00033
 43150 OUT 00007
 43151 OUT 00007
 43152 OUT 00011
 43153 OUT 00015
 43154 OUT 00015
 43155 OUT 00016
 43156 OUT 00016
 43157 OUT 00025

MCDONNELL DOUGLAS ASTRONAUTICS CO.
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CROSS REFERENCE OF OUTPUT/HOLDING REGISTERS

43158 OUT 00025
43159 OUT 00021
43160 OUT 00021
43161 OUT 00197
43162 OUT 00197
43400 OUT 00204
43410 OUT 00208

***** END OF LISTING *****

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340

CROSS REFERENCE OF OUTPUT/HOLDING REGISTERS

REG # TYPE CROSS REFERENCE BY NETWORK #

44002 OUT 00214
 44004 OUT 00046
 44007 OUT 00069
 44008 OUT 00069
 44009 OUT 00071
 44010 OUT 00062
 44011 OUT 00062
 44012 OUT 00065
 44013 OUT 00065
 44014 OUT 00068
 44016 OUT 00068
 44017 OUT 00070
 44019 OUT 00115
 44020 OUT 00116
 44021 OUT 00116
 44024 OUT 00120
 44025 OUT 00121
 44028 OUT 00121
 44029 OUT 00122
 44031 OUT 00117
 44032 OUT 00125
 44033 OUT 00127
 44035 OUT 00131
 44037 OUT 00136
 44038 OUT 00133
 44039 OUT 00136
 44044 OUT 00071
 44045 OUT 00142
 44047 OUT 00147
 44048 OUT 00144
 44049 OUT 00147
 44055 OUT 00153
 44057 OUT 00158
 44058 OUT 00155
 44059 OUT 00158
 44060 OUT 00162
 44065 OUT 00165
 44067 OUT 00170
 44068 OUT 00167
 44069 OUT 00170
 44070 OUT 00174
 44201 OUT 00418
 44203 OUT 00419
 44204 OUT 00419
 44205 OUT 00421
 44206 OUT 00423
 44207 OUT 00420
 44222 OUT 00221
 44225 OUT 00222

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CROSS REFERENCE OF OUTPUT/HOLDING REGISTERS

44226 OUT 00223
44227 OUT 00223
44228 OUT 00225
44229 OUT 00226
44242 OUT 00231
44245 OUT 00232
44246 OUT 00233
44247 OUT 00233
44248 OUT 00235
44249 OUT 00236
44400 OUT 00206
44402 IN 00162
OUT 00162
44403 IN 00162
OUT 00162
44405 OUT 00162
44412 IN 00162
OUT 00162
44413 IN 00162
OUT 00162
44415 OUT 00162
44422 IN 00174
OUT 00174
44423 IN 00174
OUT 00174
44425 OUT 00174
44432 IN 00174
OUT 00174
44433 IN 00174
OUT 00174
44435 OUT 00174

***** END OF LISTING *****

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MCDONNELL DOUGLAS

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FSCM NO.

18355

DRAWING NO.

1D44789

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CROSS REFERENCE OF OUTPUT/HOLDING REGISTERS

REG # TYPE CROSS REFERENCE BY NETWORK #

46001 OUT 00295
 46002 OUT 00296
 46003 OUT 00291
 46004 OUT 00292
 46005 OUT 00287
 46006 OUT 00288
 46007 OUT 00299
 46008 OUT 00300
 46009 OUT 00303
 46010 OUT 00304
 46011 OUT 00307
 46012 OUT 00308
 46013 OUT 00311
 46014 OUT 00312
 46015 OUT 00315
 46016 OUT 00316
 46017 OUT 00319
 46018 OUT 00320
 46019 OUT 00323
 46020 OUT 00324
 46021 OUT 00327
 46022 OUT 00328
 46023 OUT 00331
 46024 OUT 00332
 46027 OUT 00335
 46028 OUT 00336
 46029 OUT 00338
 46030 OUT 00339
 46067 OUT 00397
 46068 OUT 00398
 46082 OUT 00462
 46083 OUT 00469
 46084 OUT 00465
 46085 OUT 00391
 46086 OUT 00392
 46089 OUT 00399
 46090 OUT 00382
 46091 OUT 00383
 46092 OUT 00384
 46093 OUT 00451
 46094 OUT 00487
 46095 OUT 00486
 46096 OUT 00484
 46097 OUT 00483
 46098 OUT 00404
 46099 OUT 00406
 46100 OUT 00405
 46101 OUT 00437
 46102 OUT 00437

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CROSS REFERENCE OF OUTPUT/HOLDING REGISTERS

46103 OUT 00438
46104 OUT 00430
46105 OUT 00427
46106 OUT 00429
46107 OUT 00433
46108 OUT 00433
46109 OUT 00444
46110 OUT 00441

***** END OF LISTING *****

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CROSS REFERENCE OF OUTPUT/HOLDING REGISTERS

REG # TYPE CROSS REFERENCE BY NETWORK #

46161 OUT 00446
 46162 OUT 00394
 46163 OUT 00394
 46165 OUT 00543
 46168 OUT 00486
 46170 OUT 00560
 46171 OUT 00432
 46172 OUT 00401
 46173 OUT 00401
 46174 OUT 00386
 46176 OUT 00552
 46177 OUT 00466
 46178 OUT 00456
 46179 OUT 00456
 46181 OUT 00495
 46182 OUT 00498
 46183 OUT 00510
 46184 OUT 00513
 46185 OUT 00525
 46186 OUT 00528
 46187 OUT 00531
 46188 OUT 00534
 46190 OUT 00537
 46191 OUT 00540
 46192 OUT 00546
 46193 OUT 00549
 46195 OUT 00484
 46196 OUT 00578
 46197 OUT 00581
 46198 OUT 00478
 46199 OUT 00478
 46200 OUT 00454
 46201 OUT 00454
 46202 OUT 00458
 46203 OUT 00458
 46204 OUT 00460
 46205 OUT 00452
 46206 OUT 00463
 46207 OUT 00468
 46208 OUT 00471
 46209 OUT 00472
 46210 OUT 00409
 46211 OUT 00414
 46212 OUT 00412
 46213 OUT 00413
 46214 OUT 00415
 46215 OUT 00439
 46216 OUT 00429
 46217 OUT 00443

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CROSS REFERENCE OF OUTPUT/HOLDING REGISTERS

REG # TYPE CROSS REFERENCE BY NETWORK #

46218 OUT 00443
 46219 OUT 00447
 46220 OUT 00349
 46221 OUT 00348
 46223 OUT 00460
 46224 OUT 00557
 46225 OUT 00590-00591
 46226 OUT 00584-00585
 46228 OUT 00404
 46229 OUT 00448
 46230 OUT 00433
 46231 OUT 00434
 46233 OUT 00428
 46234 OUT 00442
 46236 OUT 00335
 46243 OUT 00551
 46244 OUT 00587-00588
 46245 OUT 00578
 46246 OUT 00583
 46247 OUT 00584
 46249 OUT 00590
 46251 OUT 00587
 46252 OUT 00576

***** END OF LISTING *****

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CROSS REFERENCE OF OUTPUT/HOLDING REGISTERS

REG # TYPE CROSS REFERENCE BY NETWORK #

47101 OUT 00601
 47102 OUT 00601
 47103 OUT 00601
 47104 IN 00604
 OUT 00601
 47105 OUT 00601
 47106 OUT 00601
 47107 OUT 00601
 47108 OUT 00601
 47109 OUT 00601
 47110 OUT 00601
 47111 OUT 00601
 47112 IN 00602
 OUT 00601
 47113 IN 00602
 OUT 00601
 47114 IN 00602
 OUT 00601
 47115 IN 00602
 OUT 00601
 47116 IN 00602
 OUT 00601
 47117 IN 00602
 OUT 00601
 47118 IN 00602
 OUT 00601
 47119 IN 00602
 OUT 00601
 47120 IN 00602
 OUT 00601
 47121 IN 00602
 OUT 00601
 47122 IN 00602
 OUT 00601
 47123 OUT 00601
 47124 OUT 00601
 47125 OUT 00601
 47126 OUT 00601
 47127 OUT 00601
 47128 IN 00603
 OUT 00601
 47129 IN 00603
 OUT 00601
 47130 IN 00603
 OUT 00601
 47131 IN 00603
 OUT 00601
 47132 IN 00603
 OUT 00601

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CROSS REFERENCE OF OUTPUT/HOLDING REGISTERS

47133 IN 00603
 OUT 00601
 47134 IN 00603
 OUT 00601
 47135 IN 00603
 OUT 00601
 47136 IN 00603
 OUT 00601
 47137 IN 00603
 OUT 00601
 47138 IN 00603
 OUT 00601
 47139 OUT 00601
 47140 OUT 00601
 47141 OUT 00601
 47142 OUT 00601
 47143 OUT 00601
 47144 IN 00605
 OUT 00601,00605
 47145 IN 00605
 OUT 00601,00605
 47146 IN 00605
 OUT 00601,00605
 47147 IN 00605
 OUT 00601,00605
 47148 IN 00605
 OUT 00601,00605
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 47152 IN 00605
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 OUT 00601,00605
 47154 IN 00605
 OUT 00601,00605
 47155 IN 00605
 OUT 00601,00605
 47156 IN 00605
 OUT 00601,00605
 47157 IN 00605
 OUT 00601,00605
 47158 IN 00605
 OUT 00601,00605
 47159 IN 00605
 OUT 00601,00605
 47160 IN 00605
 OUT 00601,00605

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CROSS REFERENCE OF OUTPUT/HOLDING REGISTERS

47161 IN 00605
 OUT 00601,00605
 47172 OUT 00602
 47173 IN 00602
 OUT 00602
 47174 IN 00602
 OUT 00602
 47175 IN 00602
 OUT 00602
 47176 IN 00602
 OUT 00602
 47177 IN 00602
 OUT 00602
 47178 IN 00602
 OUT 00602
 47179 IN 00602
 OUT 00602
 47180 IN 00602
 OUT 00602
 47181 IN 00602
 OUT 00602
 47182 IN 00602
 OUT 00602
 47183 IN 00602
 OUT 00602
 47189 OUT 00603
 47190 IN 00603
 OUT 00603
 47191 IN 00603
 OUT 00603
 47192 IN 00603
 OUT 00603
 47193 IN 00603
 OUT 00603
 47194 IN 00603
 OUT 00603
 47195 IN 00603
 OUT 00603
 47196 IN 00603
 OUT 00603
 47197 IN 00603
 OUT 00603
 47198 IN 00603
 OUT 00603
 47199 IN 00603
 OUT 00603
 47200 IN 00603
 OUT 00603
 47206 OUT 00604
 47207 OUT 00604
 47208 IN 00605

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CROSS REFERENCE OF OUTPUT/HOLDING REGISTERS

47209 IN 00605
47210 IN 00605
47211 IN 00605
47212 IN 00605
47213 IN 00605
47214 IN 00605
47215 IN 00605
47216 IN 00605
47217 IN 00605
47218 IN 00605
47219 IN 00605
47220 IN 00605
47221 IN 00605
47222 IN 00605
47223 IN 00605
47224 IN 00605
47225 IN 00605
47236 OUT 00605
47237 IN 00605
OUT 00605

***** END OF LISTING *****

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1044789

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CROSS REFERENCE OF OUTPUT/HOLDING REGISTERS

REG # TYPE CROSS REFERENCE BY NETWORK #

47300 OUT 00607
47301 OUT 00607
47302 OUT 00607
47303 OUT 00607
47304 OUT 00608
47305 OUT 00608
47306 OUT 00608
47307 OUT 00608
47308 OUT 00609
47309 OUT 00609
47310 OUT 00609
47311 OUT 00609
47312 OUT 00610
47313 OUT 00610
47314 OUT 00610
47315 OUT 00610
47316 OUT 00611
47317 OUT 00611
47318 OUT 00611
47319 OUT 00611

***** END OF LISTING *****

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CROSS REFERENCE OF OUTPUT/HOLDING REGISTERS

REG # TYPE CROSS REFERENCE BY NETWORK #

48001 OUT 00003
 48002 OUT 00007
 48003 OUT 00007
 48004 OUT 00011
 48005 OUT 00015
 48006 OUT 00015
 48007 OUT 00016
 48008 OUT 00016
 48009 OUT 00021
 48010 OUT 00021
 48011 OUT 00025
 48012 OUT 00025
 48014 OUT 00068
 48015 OUT 00068
 48016 OUT 00115
 48017 OUT 00120
 48018 OUT 00125
 48019 OUT 00136
 48020 OUT 00147
 48021 OUT 00158
 48022 OUT 00170
 48023 OUT 00199
 48024 OUT 00199
 48025 OUT 00221
 48026 OUT 00221
 48027 OUT 00222
 48028 OUT 00222
 48029 OUT 00231
 48030 OUT 00231
 48031 OUT 00232
 48032 OUT 00232
 48033 OUT 00242
 48034 OUT 00245
 48035 OUT 00245
 48036 OUT 00246
 48037 OUT 00246
 48038 OUT 00251
 48039 OUT 00251
 48040 OUT 00252
 48041 OUT 00253
 48042 OUT 00194
 48043 OUT 00195
 48044 OUT 00196
 48045 OUT 00196
 48046 OUT 00195
 48047 OUT 00346
 48048 OUT 00346
 48049 OUT 00347
 48050 OUT 00346

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CROSS REFERENCE OF OUTPUT/HOLDING REGISTERS

48051 OUT 00346
 48052 OUT 00347
 48053 OUT 00347
 48054 OUT 00454
 48055 OUT 00454
 48056 OUT 00456
 48057 OUT 00456
 48058 OUT 00458
 48059 OUT 00458
 48060 OUT 00460
 48061 OUT 00460
 48062 OUT 00569
 48063 OUT 00569
 48064 OUT 00347
 48065 OUT 00226
 48066 OUT 00229
 48067 OUT 00236
 48068 OUT 00239
 48100 OUT 00574
 48105 OUT 00335
 48106 OUT 00002
 48107 OUT 00595
 48108 OUT 00451
 48110 OUT 00581
 48111 OUT 00584
 48112 OUT 00584
 48115 OUT 00356
 48116 OUT 00352
 48117 OUT 00354
 48118 OUT 00358
 48119 OUT 00360
 48120 OUT 00362
 48121 OUT 00364
 48122 OUT 00367
 48123 OUT 00370
 48124 OUT 00373
 48125 OUT 00376
 48126 OUT 00379
 48127 OUT 00594
 48128 OUT 00205
 48129 OUT 00205
 48130 OUT 00551
 48131 OUT 00601
 48132 OUT 00602
 48133 OUT 00603
 48134 OUT 00581
 48135 OUT 00132
 48136 OUT 00143
 48137 OUT 00154
 48138 OUT 00166
 48191 OUT 00606
 48192 OUT 00606

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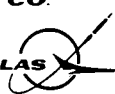
SHEET

353

- SETPOINT DATA AND VALUES
- STATUS MASK VALUES

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ILS 584 #1 STATUS

INPUT MODULES

STATUS	MASK	
47112 = 0000000000000000	47181 = 0000000000000000	
47113 = 0000000000000000	47182 = 0000000000000000	
47114 = 0000000000000000	47183 = 0000000000000000	
47115 = 0000000000000000	47184 = 0000000000000000	47172 = 0000 DECIMAL BAD CHANNEL NUMBER
47116 = 0000000000000000	47185 = 0000000000000000	
47117 = 0000000000000000	47186 = 0000000000000000	
47118 = 0000000000000000	47187 = 0000000000000000	47173 = 0000 DECIMAL BAD MODULE NUMBER
47119 = 0000000000000000	47188 = 0000000000000000	
47120 = 0000000000000000	47189 = 0000000000000000	
47121 = 0000000000000000	47190 = 0000000000000000	
47122 = 0000000000000000	47191 = 0000000000000000	

OUTPUT MODULES

STATUS	MASK	
47128 = 0000000000000000	47201 = 0000000000000000	
47129 = 0000000000000000	47202 = 0000000000000000	
47130 = 0000000000000000	47203 = 0000000000000000	
47131 = 0000000000000000	47204 = 0000000000000000	47174 = 0000 DECIMAL BAD CHANNEL NUMBER
47132 = 0000000000000000	47205 = 0000000000000000	
47133 = 0100000000000000	47206 = 0100000000000000	
47134 = 0000000000000000	47207 = 0000000000000000	47175 = 0000 DECIMAL BAD MODULE NUMBER
47135 = 0000000000000000	47208 = 0000000000000000	
47136 = 0000000000000000	47209 = 0000000000000000	
47137 = 0000000000000000	47210 = 0000000000000000	
47138 = 0000000000000000	47211 = 0000000000000000	

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STMP0 259

Department of Energy
San Francisco Operations Office
1333 Broadway
Oakland, California 94612

Reply To: DOE Solar One Project Office
P.O. Box 366
Daggett, CA 92327

OCT 12 1984

Mr. Robert L. Gervais
Solar One Project Office
McDonnell Douglas Astronautics Corp.
P.O. Box 366
Daggett, CA 92327

Subject: Contractor Clearance of Contract DE-AC03-79SF10499
Solar One Reports for DOE/TIC Inclusion.

Dear Bob:

Enclosed are copies of covers and title pages of nine reports prepared by McDonnell Douglas Astronautics Corporation for the Solar One Project under the above referenced contract. In preparation for delivery of these documents to DOE/TIC, I have prepared a SAN form 70 "Request for Patent Clearance" and a DOE form RA-426 "Recommendations for Announcement and Distribution of Documents" for each document.

Please have the appropriate MDAC personnel complete and sign these forms. As agreed, SAN form 70 should be forwarded to SAN/OPC by your office with copies of the completed SAN form 70 and the transmittal letter being sent to me. The completed DOE form RA-426 should be sent directly back to me.

The documents covered by this letter are:

<u>Primary Document No.</u>	<u>Secondary No.</u>	<u>Brief Title</u>
DOE/SF/10499-T159	STMP0 249	MCS As-Built Drawings Vol I, Sec I
DOE/SF/10499-T160	STMP0 250	MCS As-Built Drawings Vol I, Sec II, Part I
DOE/SF/10499-T161	STMP0 251	MCS As-Built Drawings Vol I, Sec II, Part II
DOE/SF/10499-T162	STMP0 252	MCS As-Built Drawings Vol 2
DOE/SF/10499-T163	STMP0 253	MCS As-Built Drawings Vol 3

DOE/SF/10499-T164	STMPO 254	MCS As-Built Drawings Vol 4, Sec I
DOE/SF/10499-T165	STMPO 255	MCS As-Built Drawings Vol 4, Sec II
DOE/SF/10499-T166	STMPO 256	MCS As-Built Drawings Vol 4, Sec III
DOE/SF/10499-T167	STMPO 257	MCS As-Built Drawings Vol 5

If you should have any questions or concerns please do not hesitate to contact me by telephone at, (619) 254-2672.

Sincerely,



S.D. Elliott, Jr., Director
DOE Solar One Project Office

SDE/aks
Project File: CCC013.RNO(SA3:)

Encl: Nine Document Covers W/forms 70 and RA-426

cc: Roger Gaither, SAN/OPC
W.D. Matheny, DOE/TIC
Mike Lopez, DOE/SAN (FGS)
Mary Soderstrum, B&McD



**DEPARTMENT OF ENERGY
SAN FRANCISCO OPERATIONS OFFICE**

**CONTRACTOR REQUEST FOR PATENT CLEARANCE
FOR RELEASE OF UNCLASSIFIED DOCUMENT**

Prime Contract No. DE-AC03-79SF10499
Subcontract No. (N/A)
Report No. (STMP0 257) DOE/SF/10499-T167
Date of Report September 1982
Name & Phone No. of DOE Technical Representative S.D. Elliott, Jr. (619) 254-2672

TO: Roger S. Gaither, Asst. Chief for Prosecution
Office of Patent Counsel/Livermore Office
P.O. Box 808, L-376
Livermore, California 94550

FROM: McDonnell Douglas Corporation
3855 Lakewood Blvd.
Long Beach, CA 90846

- Document Title: Master Control System As-Built Drawing, Vol 5, Interlock Logic System
- Type of Document: Technical Report, Conference Paper, Journal Article, Abstract or Summary, Copy of Oral Presentation, Other (please specify): _____
(Routine)
- In order to meet a publication schedule or submission deadline, patent clearance by _____ would be desired.

SENDER IS TO CHECK BOX #4 OR #5 BELOW.

4. I have reviewed (or have had reviewed by technically knowledgeable personnel) this document for possible inventive subject matter (Subject Inventions) and that no inventions or discoveries (Subject Inventions) are deemed to be disclosed in this document except as stated below:
- Attention should be directed to pages _____ of this document.
 - This document describes matter relating to an invention:
 - Contractor Invention Docket No. _____.
 - A disclosure of the invention was submitted to DOE on _____ (date)
 - A disclosure of the invention will be submitted shortly _____ (approximate date)
 - A waiver of DOE's patent rights to the contractor:
 has been granted, has been applied for; or will be applied for _____ (date)
5. This document is being submitted, but no review has been made of this document for possible inventive subject matter.
Provide copy of clearance to: Solar One Project Office
P.O. Box 366, Daggett, CA 92327

6. Remarks:

Reviewing/Submitting Official: Name (Print/Type) _____
Title _____
Signature _____ Date _____

TO: INITIATOR OF REQUEST

FROM: ASSISTANT CHIEF FOR PROSECUTION
Office of Patent Counsel/Livermore Office

- No patent objection to above-identified release.
- Please defer release until advised by this office.

Signed _____ Date Mailed _____

DOE AND MAJOR CONTRACTOR RECOMMENDATIONS FOR
ANNOUNCEMENT AND DISTRIBUTION OF DOCUMENTS

See Instructions on Reverse Side

1. DOE Report No. OE/SF/10499-T167 (SIMPO 257)	2. Contract No. DE-AC03-79SF10499	3. Subject Category No. UC-62, 62c, 62d
---	--------------------------------------	--

4. Title
Master Control System As-Built Drawing, Volume 5, Interlock Logic System

5. Type of Document ("x" one)
 a. Scientific and technical report
 b. Conference paper: Title of conference _____

_____ Date of conference _____

Exact location of conference _____ Sponsoring organization _____

c. Other (specify planning, educational, impact, market, social, economic, thesis, translations, journal article manuscript, etc.)

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 d. within DOE. e. to those listed in item 13 below.
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14. Submitted by (Name and Position) (Please print or type)

S.D. Elliott, Jr., Director, DOE Solar One Project Office

Organization

P.O. Box 366, Daggett, CA 92327

(619) 254-2672

Signature

Date

DOE FILE COPY

SAN/0499-86
MDC-00120

DOE/SF/10499-T16
STMPO 257

Juvenile Solar Thermal
Central Receiver Pilot Plant

REPORT
CONFIDENTIAL
MAY 1982
MCDONNELL DOUGLAS

SOLAR FACILITIES DESIGN INTEGRATION

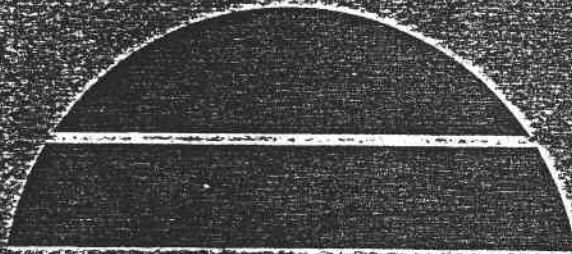
MASTER CONTROL SYSTEM
AS-BUILT DRAWINGS (RADL ITEM 6-5)

VOLUME 5 → INTERLOCK LOGIC SYSTEM (ILS)

September 1982

WORK PERFORMED UNDER CONTRACT
DE-AC02-79SF1049

MCDONNELL DOUGLAS AERONAUTICS COMPANY
5300 BOLSA AVENUE
HUNTINGTON BEACH, CA 92647



U.S. Department of Energy



Solar Energy

**10 MWe Solar Thermal
Central Receiver Pilot Plant
Solar Facilities Design Integration**

**MASTER CONTROL SYSTEM
AS-BUILT DRAWINGS (RADL ITEM 6-5)
VOLUME 5 — INTERLOCK LOGIC SYSTEM (ILS)**

September 1982

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**MCDONNELL DOUGLAS ASTRONAUTICS COMPANY
5301 BOLSA AVENUE
HUNTINGTON BEACH, CA 92647**

**PREPARED FOR THE
U.S. DEPARTMENT OF ENERGY
SOLAR ENERGY
UNDER CONTRACT DE-AC03-79SF10499**

U.S. DEPARTMENT OF ENERGY

DOE AND MAJOR CONTRACTOR RECOMMENDATIONS FOR ANNOUNCEMENT AND DISTRIBUTION OF DOCUMENTS

See Instructions on Reverse Side

1. DOE Report No. OE/SF/10499-T167 (SIMPO 257)	2. Contract No. DE-AC03-79SF10499	3. Subject Category No. UC-62, 62c, 62d
---	--------------------------------------	--

4. Title
Master Control System As-Built Drawing, Volume 5, Interlock Logic System

5. Type of Document ("x" one)

a. Scientific and technical report

b. Conference paper: Title of conference _____
Date of conference _____

Exact location of conference _____ Sponsoring organization _____

c. Other (specify planning, educational, impact, market, social, economic, thesis, translations, journal article manuscript, etc.) _____

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TO: Roger S. Gaither, Asst. Chief for Prosecution
Office of Patent Counsel/Livermore Office
P.O. Box 808, L-376
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