

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC EXPANDED SOURCE STATEMENT

1 0000 BEGIN PROGRAM (VAEA6);  
\$ COPYRIGHT (1990) NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. \$  
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SYSTEM NAME - MPS  
COMPANY / GROUP / PHONE - LSOC / MPS-SSME / 6683

HARDWARE / SOFTWARE CONFIGURATION REQUIREMENTS  
FLIGHT SOFTWARE -  
FLIGHT HARDWARE - ORBITER  
PCM FORMAT - 129  
LPS HARDWARE - C47 LDB7 GPC  
GSE - NONE

FUNCTIONAL DESCRIPTION

THIS PROGRAM PERFORMS VERIFICATION OF ORBITER VALVES POSITION  
WHEN ELECTRICAL BUSES ARE DROPPED AND ON-BOARD SWITCHES ARE  
CHANGED.

OMRSD REQUIREMENTS SATISFIED -  
HAZARDS AND WARNINGS -  
PREREQUISITES - NONE  
PSEUDO FD'S/FUNCTIONS - NONE

OPERATOR INFORMATION

PFK1 : RSYS TRANSFER OF <V41K1535XL>  
AND <V41K1537XL> TO C4  
PFK2 : RSYS TRANSFER OF <V41K1535XL>  
AND <V41K1537XL> TO C3  
PFK3 : BUS REDUNDANCY TEST  
PFK4 : CIG/SCAN TEST  
PFK5 : MPS AND SSME HE ISO'S ARE MATED  
PFK6 : MPS AND SSME HE ISO'S ARE NOT MATED  
PFK7 : REDISPLAY SCREEN  
PFK15: TERMINATE PROGRAM

PFPK FUNCTIONS - PFPK1: CONTINUE : NOMINAL CONTINUE - NO ERRORS  
PFPK2: VERIFY AGAIN : GO BACK UP AND REDO TEST  
PFPK4: ABORT CURR TEST: GET OUT OF THE CURRENT TEST  
AND GO TO IDLE LOOP

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

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PPK5: ERRORS - CONTINUE : IGNORE ERRORS AND CONTINUE  
PPK6: TERMINATE: TERMINATE PROGRAM

INITIAL OPERATOR PROMPTS OPERATOR IS INITIALLY ASKED WHAT TYPE OF TEST IS BEING RUN.

PFK1 RSYS TRANSFER OF <V41K1535XL> AND <V41K1537XL>  
TO G4

PFK2 RSYS TRANSFER OF <V41K1535XL> AND <V41K1537XL>  
TO G3

PFK3 REPRESENTS IF A NORMAL V1161 TEST IS TO BE RUN  
PFK4 REPRESENTS A CIG/SCAN RETEST. IF THIS IS TRUE, THEN  
THE HELIUM SWITCHES ARE IGNORED, THERE IS NO REASON  
TO TEST THESE.

PFK5 IF HELIUM ISO'S ARE MATED, THEN THIS MAY BE A  
HAZARDOUS CONDITION, IF THE PRESSURE RELIEF VALVE  
BLOWS AND FLOODS THE AFT WITH HELIUM.

PFK6 IF NO HELIUM ISO'S ARE MATED.

REVISION HISTORY :

MODIFIED : 06-02-87  
REFERENCE : ESR K49054  
ACTION : CREATED PROGRAM VAEA6  
REVISION : 47  
ENGINEER : WILLIAM KENDALL HOLLIS, KSC MPS/SSME

MODIFIED : 10-12-87  
REFERENCE : RCN OV7445  
ACTION :  
REVISION : 63  
ENGINEER : WILLIAM KENDALL HOLLIS, KSC MPS/SSME

MODIFIED : 11-17-87  
REFERENCE : LCA-2056  
ACTION : INCLUDE OMRS V41AFO.250 AND V41AFO.260  
REVISION : 66  
ENGINEER : WILLIAM KENDALL HOLLIS, KSC MPS/SSME

MODIFIED : 01-14-88  
REFERENCE : DC000676C  
ACTION : COMPILER UNDER TCID SV20RB TO REFLECT NEW FD NOMENCLATURE  
REVISION : 67  
ENGINEER : JAMES GLASS/DAN O'ROURKE LSOC S/W 7-6683

MODIFIED : 07-15-88 FOR STS-27R, REV 73

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REFERENCE : PR LCA-2216  
ACTION : ~~CORRECT LOW LIMIT FOR VLLAGE TRANSDUCERS.~~  
REFERENCE : RCN KV8085  
ACTION : ~~MPS BUS REDUNDANCY CHECKOUT OMRSD UPDATE~~  
S/W ENGINEER : J. GLASS LSOC 7-6683  
H/W ENGINEER : K. HOLLIS LSOC 7-6848

MODIFIED : 06-02-89 FOR NFLT, REV 74  
REFERENCE : ESR K49569  
ACTION : BUS REDUNDANCY CHECKOUT OMRSD CORRECTION  
S/W ENGINEER : J. GLASS LSOC 7-6683  
H/W ENGINEER : K. HOLLIS LSOC 7-6848

MODIFIED : 01-28-91  
REFERENCE : ESR K49738  
ACTION : ~~MODIFIED PROGRAM TO INHIBIT EMONS FOR THE BUS REDUNDANCY~~  
: ~~FDS ON C4. PROGRAM WILL ALSO PROMPT THE OPERATOR TO IN-~~  
: ~~HIBIT C3 BUS REDUNDANCY EMONS. UPON PROGRAM TERMINATION~~  
: ~~THE C4 BUS REDUNDANCY TEST EMONS WILL BE REACTIVATED AND~~  
: ~~THE OPERATOR WILL BE PROMPTED TO REACTIVATE EMONS ON THE~~  
: ~~C3 BUS REDUNDANCY FDS.~~  
REVISION : 77  
ENGINEER : CHRISTOPHER GARIEPY / LSOC MPS SW / 7-6683

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\$\*\*\*\*\*  
THIS PROGRAM VERIFIES THE CORRECT SWITCH AND VALVE CONFIGURATION  
FOR V1161, THE BUS DROP TEST, AND CIG/SCAN RETEST.

VARIOUS OMRSD REQUIREMENTS ARE MET WITH THIS PROGRAM.

GENERAL TECHNIQUE: EACH BUS DROP TEST CONSISTS OF THREE PHASES. THE  
FIRST PHASE TELLS THE COCKPIT COMMANDER WHAT POSITION TO PUT THE  
COCKPIT SWITCHES IN. IT THEN VERIFIES SWITCHES ARE IN THE CORRECT  
CONFIGURATION AND VERIFIES THE VALVES HAVE THE CORRECT INDICATORS  
ON. THE SECOND PHASE THEN TELLS THE COCKPIT COMMANDER TO (USUALLY)  
CHANGE THE COCKPIT SWITCHES TO THE OPPOSITE POSITION, AND AGAIN  
CHECKS THE SWITCH AND VALVE INDICATORS FOR THE CORRECT INDICATION.  
THE THIRD AND FINAL PHASE INVOLVES GETTING THE SWITCHES BACK TO  
GPC (USUALLY).

GENERAL I/O: THE INPUT IS TAKEN FROM THE FEPI'S, IE THE INDICATIONS  
ON THE SWITCHES AND VALVES. ALL OUTPUT IS SENT TO THE SCREEN AND  
GENERALLY SENT ALSO TO THE SPA AND CNLS-PP SO THAT DATA REVIEW IS  
EASIER AFTER THE TEST HAS BEEN COMPLETED.

NOTES:

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~~EXPANDED SOURCE STATEMENT  
SOME OF THE SWITCHES LOSE POWER DURING SOME OF THE BUS DROPS,  
SO THEREFORE THE PROGRAM CANNOT TELL WHAT POSITION THE SWITCH IS IN.  
THIS PROBLEM HAS BEEN TAKEN CARE OF BY THE NOPOWER COLUMN OF THE  
SWITCH TABLE. THE PROGRAM WILL GO AHEAD AND TELL THE COCKPIT  
COMMANDER TO MOVE THE SWITCH TO THE (X) POSITION (WHERE X IS NOT  
GPC) AND WILL NOT CHECK TO SEE WHAT POSITION THE SWITCH IS IN.~~

~~ANY TEST CAN BE PERFORMED IN ANY SEQUENCE. THE PROGRAM KNOWS  
ONLY THE SWITCH CONFIGURATION FOR THAT MOMENT, SO WHEN IT STARTS  
LOOKING AT THE SWITCHES, IT TELLS THE OPERATOR ANY SWITCH THAT IS  
OUT OF CONFIGURATION, NOT JUST THE SWITCHES THAT IT HAS LOOKED  
AT PREVIOUSLY.~~

~~INITIALIZATION IS CONSIDERED TO BE TEST 37.~~

~~SOME SWITCHES ARE GND INSTEAD OF GPC AND IN/OPEN AND  
OUT/OPEN INSTEAD OF OPEN AND CLOSED.~~

~~THE MPS HELIUM PRESSURES ARE UNDER CONTINUOUS MONITORING FOR OPERATOR  
NOTIFICATION OF A POSSIBLE HAZARD CONDITION. THE TWO  
PRESSURES, <V41P1605A1> AND <V41P1650A1>, HAVE A HIGH LIMIT OF  
25 PSIA, AND THEIR LABELS WILL TURN RED FIRST BECAUSE OF  
GOAL NOTIFICATION.~~

~~EPDC BUSES ARE VERIFIED TO BE IN THE CORRECT CONFIGURATION  
WHENEVER THE SWITCH POSITIONS ARE CHECKED. IF A BUS IS OUT  
OF CONFIGURATION THEN THE PROGRAM STOPS, NOTIFIES THE OPERATOR  
AND WAITS FOR A CONTINUE.~~

~~IF BOTH INDICATORS FOR THE SWITCH ARRAY (EXPECTED) ARE ON, THEN A  
PROGRAMMING ERROR HAS OCCURED, AND THE OPERATOR IS NOTIFIED. IF  
BOTH INDICATORS IN THE SWITCH ARRAY (ACTUAL) ARE ON, THEN THE SWITCH  
IS MALFUNCTIONING, AND THE OPERATOR IS NOTIFIED.~~

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MODIFYING:

~~BECAUSE OF RDA SPACE LIMITATIONS AND THE NON ALLOWANCE OF MULTIPLE  
INDEXED ARRAYS, THE TESTS COULD NOT BE SET UP IN ARRAYS. SWITCH, VALVE 1,  
AND VALVE2 WERE DECLARED TO HOLD THE INTERMEDIATE CURRENT AND EXPECTED  
VALUES OF SWITCHES AND VALVES FOR THE TEST CURRENTLY BEING RUN.~~

~~THE PROGRAM RUNS THE FOLLOWING PATH:~~

~~SET THE SWITCH AND VALVE ARRAYS ALL TO OFF.  
IF RUNNING THE FIRST SWITCH/VALVE CONFIGURATION, GOTO STEP 2XX0  
(WHERE XX IS THE TEST NUMBER)~~

~~IF RUNNING THE SECOND OR THIRD TEST, GOTO STEP 2XX5~~

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SET SWITCH INDICATORS AND VALVE INDICATORS EXPECTED TO BE ON

GO TO SWITCH/VALVE CHECK LOOP AND VERIFY POSITIONS ARE  
EQUAL TO EXPECTED POSITIONS.

THE PROGRAM IS ABLE TO TELL THE OPERATOR WHAT TO POSITION THE COCKPIT SWITCH IN FROM THE INDICATORS READ. IF THE OPEN INDICATOR IS EXPECTED ON, THE PROGRAM TELLS THE OPERATOR TO MOVE THE SWITCH TO OPEN, OF THE CLOSED INDICATOR IS ON, THEN THE PROGRAM TELLS THE OPERATOR TO CLOSE THE SWITCH. IF BOTH INDICATORS ARE ON, THEN AN ERROR MESSAGE IS PRINTED. IF BOTH INDICATORS ARE OFF, THEN THE SWITCH IS MOVED TO GPC. THE ARRAY (SWITCH) HOLDS A PAIR OF INDICATORS FOR EACH SWITCH. THE FIRST FD IS THE OPEN INDICATOR, AND THE SECOND FD IS THE CLOSED INDICATOR. THE NAME OF THE SWITCH IS IDENTIFIED IN THE SUBROUTINE NSWITCH, WHERE THE SWITCH NAME IS EQUAL TO THE SWITCH FD DIVIDED BY TWO. TO MODIFY A SWITCH, FOR THE PROGRAM TO PROMPT FOR THE SWITCH TO BE OPEN, THE OPEN INDICATOR MUST BE ON, AND SINCE THE ARRAYS ARE SET TO OFF EACH TEST, THE CLOSED INDICATOR WILL ALREADY BE OFF. TO PROMPT FOR A CLOSED SWITCH, THE CLOSED INDICATOR MUST BE ON, AND LIKEWISE, THE OPEN INDICATOR WILL ALREADY BE OFF. THE PROGRAM AUTOMATICALLY CHECKS TO MAKE SURE THAT THE SWITCH WAS INDEED PUT INTO THE CORRECT POSITION. IF A SWITCH IS TO BE PLACED INTO THE GPC POSITION, THEN THERE SHOULD BE NO ASSIGN STATEMENTS TO ON FOR EITHER INDICATION. THIS TELLS THE PROGRAM THAT GPC IS EXPECTED.

TO MODIFY A VALVE, THE INDICATOR FOR THAT VALVE MUST BE SET TO ON IF THE VALVE SHOULD SHOW AN OPEN INDICATION, AND SHOULD NOT BE ASSIGNED OFF, AS THAT IS TAKEN CARE OF WHEN THE ARRAYS ARE INITIALIZED AT THE BEGINNING OF EACH TEST.

IF A TEST IS ADDED, IT IS SUGGESTED THAT INITIALIZATION BE CHANGED TO TEST XX, WHERE XX IS ONE PLUS THE NUMBER OF TESTS, AND THAT THE NEW TEST BE INSERTED. THE NOPWER SWITCHES MUST BE FIGURED OUT, AND THE CHECK FOR THE CORRECT BUSES BEING DOWN MUST BE ADDED. IF YOU ARE USING THE ARRAYS AND FORTRAN PROGRAMS CONTAINED IN THIS PROGRAM, THEY TOO MUST BE CHANGED. INITIALLY THERE WERE 36 TEST, AND TEST 37 WAS THE INITIALIZE TEST. THE FORTRAN PROGRAMS WERE WRITTEN ON AN APOLLO COMPUTER UNDER UNIX.

IF YOU HAVE ACCESS TO A FORTRAN COMPILER, IT IS SUGGESTED THAT THE TABLES BE UPDATED, AND INSERT THE OUTPUT AT COMMENT INSERT 1 AND COMMENT INSERT 2.

\*\*\*\*\*3  
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ALL SEMI-COLONS WERE REPLACED WITH THE LETTERS 'SEMCOL', BECAUSE THE GOAL COMPILER WILL NOT ACCEPT SEMI-COLONS WITHIN COMMENT STATEMENTS. BEFORE COMPILING PROGRAMS, CHANGE ALL REFERENCES TO SEMCOL TO A REAL SEMI-COLON.

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SWITCH MATRIX

NOTE: THE PLUS MEANS THAT FD IS ON, AND THE MINUS MEANS THAT FD IS OFF, BLANK IS THE LAST POSITION. A STAR MEANS NOTHING TO THE PROGRAM, BUT TO THE READER MEANS THAT THE ON INDICATION IS CARRIED TO THE NEXT TEST. THE TWO FD'S TOGETHER REPRESENT WHETHER THE SWITCH IS OPEN, OR CLOSED. IF THE FIRST IN THE SET OF FD'S IS ON, THEN THE SWITCH IS OPEN, IF THE SECOND IN THE FD IS ON, THEN THE SWITCH IS CLOSED. IF BOTH ARE ON, AN ERROR WILL OCCUR IN THE PROGRAM, AND WILL BE SO STATED.

FD 11234567891111111111222222222233333333

0123456789012345678901234567

<V41S1155E1> ++++++\*\*\*\*\*

<V41S1165E1>

<V41S1156E1> ++++++\*\*\*\*\*

<V41S1166E1> - - - - -  
+ + + + +

<V41S1255E1> ++++++\*\*\*\*\*

<V41S1265E1> - - - - -

<V41S1256E1> ++++++\*\*\*\*\*

<V41S1266E1> - - - - -  
+ + + + +

<V41S1355E1> ++++++\*\*\*\*\*

<V41S1365E1> - - - - -

<V41S1356E1> ++++++\*\*\*\*\*

<V41S1366E1> - - - - -

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IC EXPANDED SOURCE STATEMENT

ISN ADDR	EXPANDED SOURCE STATEMENT								
<V41S1462E1>	+++++								
<V41S1168E1>	-----								
<V41S1262E1>	+++++								
<V41S1268E1>	-----								
<V41S1362E1>	+++++								
<V41S1368E1>	-----								
<V41S1436E1>	+++++								
<V41S1139E1>	+++++								
<V41S1119E1>	+++++								
<V41S1122E1>	+++++								
<V41S1401E1>	+++++								
<V41S1412E1>	+++++								
<V41S1236E1>	+++++								
<V41S1239E1>	+++++								
<V41S1219E1>	+++++								
<V41S1222E1>	+++++								
<V41S1511E1>	+++++								

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<V41S1542E1>

<V41S1391E1> +-  
- -

<V41S1393E1> ---

<V41S1435E1> +++

<V41S1434E1> + +

<V41S1336E1> + ++++++ N + +M  
M - N

<V41S1339E1> + - - - - - M - M  
+++++++ + + +-  
++ +++++

<V41S1319E1> ++ +++++

<V41S1322E1> -- ---  
++ +++++

<V41S1543E1> -- ---  
-- ---

<V41S1547E1> ++ +++++  
-- ---

<V41S1443E1> -- ---  
-- ---

<V41S1447E1> ++ +++++  
+- ---

<V41S1535E1> +++  
- -

<V41S1531E1> - - - - -  
+ +

<V41S1518E1> +-  
+ +

<V41S1515E1> ---





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 TEST, A '\*' MEANS IT IS ON FOR BOTH PARTS OF THAT TEST, AND A  
 BLANK MEANS IT IS OFF FOR BOTH PARTS OF THAT TEST.  
 FD I1234567891111111112222222233333333  
 0123456789012345678901234567

1	<V41X1102E1>	2	2					
2	<V41X1103E1>	1	1					
3	<V41X1132E1>	22	2	22	N	2	2	2
4	<V41X1133E1>	11	1	11	N			
5	<V41X1144E1>	22	2222					
6	<V41X1145E1>	1	1	11	N	1		
7	<V41X1158E1>	*	*****	*****				
8	<V41X1159E1>	*****	*****	*****				
9	<V41X1164E1>	*****	*****	*****				
10	<V41X1170E1>	2						
11	<V41X1202E1>	2	2	2				
12	<V41X1203E1>	1	1	1				
13	<V41X1232E1>	22	2	22		2	2	2
14	<V41X1233E1>	11	1	11				1
15	<V41X1244E1>	22	2222					2
16	<V41X1245E1>	1	1	11				1
17	<V41X1258E1>	*****	*	*****				
18	<V41X1259E1>	*****	*****	*****				
19	<V41X1264E1>	*****	*****	*****				
20	<V41X1270E1>	2						
21	<V41X1302E1>	2	2	2				
22	<V41X1305E1>	1	1	1				
23	<V41X1332E1>	2	22	22	N	2	N	N
24	<V41X1335E1>	1	1	1	N			1
25	<V41X1344E1>	2	22	22	N	N	N	2
26	<V41X1345E1>	1	1	11				N
27	<V41X1358E1>	*****	*****	*****	*			
28	<V41X1359E1>	*****	*****	*****				
29	<V41X1364E1>	*****	*****	*****	1	*****		
30	<V41X1370E1>	2						
31	<V41X1385E1>							
32	<V41X1386E1>	*						
33	<V41X1405E1>						2	
34	<V41X1406E1>	1						
35	<V41X1436E1>							
36	<V41X1438E1>	1						
37	<V41X1449E1>		1	1	1			
38	<V41X1458E1>	11	1					
39	<V41X1467E1>	1						
40	<V41X1468E1>							
41	<V41X1492E1>	*						
42	<V41X1505E1>							
43	<V41X1506E1>							
44	<V41X1507E1>							
45	<V41X1508E1>	*						
46	<V41X1538E1>							
47	<V41X1539E1>	1						

X1539E1  
 \*  
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 <V76X4155E1> \*\*\*\*\*  
 <V76X4156E1> \*\*\*\*\*  
 <V76X4158E1> \*\*\*\*\*1\*\*\*\*\*  
 <V76X4159E1> \*\*\*\*\*1\*\*\*\*\*  
 <V76X4171E1> \*\*\*\*\*1\*\*\*\*\*  
 <V76X4172E1> \*\*\*\*\*1\*\*\*\*\*  
 <V76X4173E1> \*\*\*\*\*1\*\*\*\*\*  
 <V76X4174E1> \*\*\*\*\*1\*\*\*\*\*  
 <V76X4175E1> \*\*\*\*\*1\*\*\*\*\*  
 <V76X4176E1> \*\*\*\*\*1\*\*\*\*\*

FD I123456789111111122222222223333333  
 0123456789012345678901234567

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\*\*\*\*\*\$

FILE FD.TEST

1AB1 <V41S1155E1> HE ISO A CENTER OPEN  
 3B62CA3 <V41S1156E1> HE ISO B CENTER OPEN  
 5B83 <V41S1255E1> HE ISO A LEFT OPEN  
 7CA1AB2 <V41S1256E1> HE ISO B LEFT OPEN  
 9CA2 <V41S1355E1> HE ISO A RIGHT OPEN  
 11BC1AB3 <V41S1356E1> HE ISO B RIGHT OPEN  
 13AB2BC3 <V41S1168E1> HE INTERCONNECT CENTER OPEN  
 15BC2CA3 <V41S1268E1> HE INTERCONNECT LEFT OPEN  
 17AB3CA1 <V41S1368E1> HE INTERCONNECT RIGHT OPEN  
 21AB1AB2AB3 <V41S1119E1> LH2 PREVALVE CENTER OPEN  
 27BC1BC2BC3 <V41S1219E1> LH2 PREVALVE LEFT OPEN  
 37CATCA2CA3 <V41S1319E1> LH2 PREVALVE RIGHT OPEN  
 23AB1AB2AB3 <V41S1401E1> PROPELLANT FILL/DRAIN LH2 INBD OPEN  
 31BC1 <V41S1391E1> PROPELLANT FILL/DRAIN LH2 OUTBD OPEN  
 29BC1BC2 <V41S1511E1> PROPELLANT FILL/DRAIN L02 OUTBD OPEN  
 45CA1 <V41S1318E1> PROPELLANT FILL/DRAIN L02 OUTBD OPEN  
 33BC2BC3 <V41S1435E1> MANIFOLD PRESS LH2 OPEN  
 43CATCA2 <V41S1535E1> MANIFOLD PRESS L02 OPEN  
 41CA1CA2CA3 <V41S1443E1> FEEDLINE RLF ISOL LH2 OPEN  
 39CATCA2CA3 <V41S1543E1> FEEDLINE RLF ISOL L02 OPEN  
 47CA1 <V41S1493E1> H2 PRESS LINE VENT OPEN  
 49AB3BC2CA1 <V41S1477E1> LH2 ULLAGE PRESS  
 51AB3BC3 <V41S1607E1> PNEUMATICS HE ISOL  
 53AB3 <V72K0081XL> MPS PRPLT DUMP SEQUENCE START A  
 55BC3 <V72K0082XL> MPS PRPLT DUMP SEQUENCE START B  
 57AB2 <V72K0085XL> MPS PRPLT DUMP BKUP LH2 VLV OPEN A  
 59BC2 <V72K0086XL> MPS PRPLT DUMP BKUP LH2 VLV OPEN B  
 \*\*\*\*\*\$

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FILE FD.TEST2

1AB1

2 AB1AB2

3 AB2AB3

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IC
ISN ADDR EXPANDED SOURCE STATEMENT
1 AB2AB3
2 AB3
3 BC1
4 BC1BC2
5 BC1BC2BC3
6 BC2
7 BC2BC3
8 CA1
9 CA1CA2
10 CA1CA2CA3
11 CA2
12 CA2CA3
13 CA3
14 CA3CA1
15 BC1AB1CA1
16 BC2CA1
17 AB3AB1
18 CA2AB1
19 BC3BC1
20 AB2BC1
21 CA3AB1
22 BC1AB3
23 AB2AB3BC1
24 AB3BC1AB1CA1
25 BC3CA1
26 BC2BC3CA1
27 BC1BC3CATAB1
28 CA1CA3AB1BC1
29 AB1CA2CA3
30 AB3BC2
31 AB3CA1

```

```

*****$
$*****$
FORTRAN PROGRAM 1
C234567
CHARACTER*60 LINE(60),MAT(200),FD(40),TEMP,
*TEMP2,TEMP3
CHARACTER*80 FNAME
CHARACTER*2 TM,IT
INTEGER NS(3,4),NV(2,4),SS(4,40),SV(4,40,3)
I=1
FNAME='SWITCH'
OPEN(UNIT=20,FILE='SWITCH',STATUS='READONLY',ERR=110)
GOTO 120
110 CONTINUE
WRITE(4,*) 'ERROR...COULD NOT OPEN ',FNAME
STOP
120 CONTINUE
FNAME='MATRIX'

```

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IC

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OPEN(UNIT=21,FILE='MATRIX',STATUS='READONLY',ERR=110)  
ILINE=1

130 CONTINUE  
READ(20,900,END=140) (LINE(ILINE,I),I=1,3)

C WRITE(\*,FMT='(I3,3(A60/,3X))') ILINE,(LINE(ILINE,I),I=1,3)  
900 FORMAT(A60)

ILINE=ILINE+1

GOTO 130

140 CONTINUE

ILINE=ILINE-1

IMAT=1

150 CONTINUE

READ(21,900,END=160) MAT(IMAT)

C WRITE(\*,FMT='(I3,A60)') IMAT,MAT(IMAT)

IMAT=IMAT+1

GOTO 150

160 CONTINUE

IMAT=IMAT-1

CLOSE(UNIT=20)

CLOSE(UNIT=21)

WRITE(\*,\*) ' DECLARE TEXT LIST (POSITION) '

WRITE(\*,\*) ' WITH 9 ENTRIES '

WRITE(\*,\*) ' TEXT(OPEN) '

WRITE(\*,\*) ' TEXT(CLOSE) '

WRITE(\*,\*) ' TEXT(GPC) '

WRITE(\*,\*) ' TEXT(IN OPEV) '

WRITE(\*,\*) ' TEXT(OUT OPEN) '

WRITE(\*,\*) ' TEXT(GND) '

WRITE(\*,\*) ' TEXT(AUTO) '

WRITE(\*,\*) ' TEXT(START) '

WRITE(\*,\*) ' TEXT(STOP)SEMCOL '

WRITE(\*,\*) ' DECLARE QUANTITY TABLE (EPDC BUS) '

WRITE(\*,\*) ' WITH 9 ROWS AND 2 COLUMNS '

WRITE(\*,\*) ' TITLED '

WRITE(\*,\*) ' (LOW) ' (HIGH) '

WRITE(\*,\*) ' WITH ENTRIES '

.VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

IC ISN ADDR EXPANDED SOURCE STATEMENT VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

```

IC
ISN ADDR EXPANDED SOURCE STATEMENT
WRITE(*,*)
WRITE(*,*) <V76V0120A1> 24V 34V
WRITE(*,*)
WRITE(*,*) <V76V0121A1> 24V 34V
WRITE(*,*)
WRITE(*,*) <V76V0122A1> 24V 34V
WRITE(*,*)
WRITE(*,*) <V76V0220A1> 24V 34V
WRITE(*,*)
WRITE(*,*) <V76V0221A1> 24V 34V
WRITE(*,*)
WRITE(*,*) <V76V0222A1> 24V 34V
WRITE(*,*)
WRITE(*,*) <V76V0320A1> 24V 34V
WRITE(*,*)
WRITE(*,*) <V76V0321A1> 24V 34V
WRITE(*,*)
WRITE(*,*) <V76V0322A1> 24V 34VSEMCOL
WRITE(*,*)
WRITE(*,*) DECLARE STATE TABLE (SWITCH)
WRITE(*,*)
WRITE(*,*) WITH * WITH 4 COLUMNS
WRITE(*,*)
WRITE(*,*) TITLED
WRITE(*,*)
WRITE(*,*) (EXPECTED)
* (ACTUAL) (NOPOWER) (NOPOWER2)
WRITE(*,*) WITH ENTRIES
WRITE(*,*)
DO 350 I=1, ILINE
TEMP=LINE(I,1)
IF (I.NE.ILINE) THEN
WRITE(*,*) (10X,A12,A47) TEMP,
* OFF OFF OFF
ELSE
WRITE(*,*) (10X,A12,A47) TEMP,
* OFF OFF OFFSENCOL
ENDIF
WRITE(*,*)
350 CONTINUE
WRITE(*,*) DECLARE STATE TABLE (VALVE1)
WRITE(*,*) WITH 100 ROWS AND 2 COLUMNS
WRITE(*,*) TITLED
WRITE(*,*)
WRITE(*,*) (EXPECTED) (NOPOWER)
WRITE(*,*) WITH ENTRIES

```

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

IC  
F5N ADDR EXPANDED SOURCE STATEMENT  
VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

```
WRITE(*,*)  
DO 360 I=1,100  
TEMP=MAT(I)  
IF (I.NE.100) THEN  
WRITE(*,FMT='(10X,A12,A23)') TEMP,  
*, OFF,  
ELSE  
WRITE(*,FMT='(10X,A12,A23)') TEMP,  
*, OFF,  
ENDIF  
WRITE(*,*)
```

```
360 CONTINUE  
WRITE(*,*) DECLARE STATE TABLE (VALUE2)  
WRITE(*,*)  
WRITE(*,FMT='(10X,A5,I3,A20)') 'WITH ', IMAT-100,  
*, ROWS AND 2 COLUMNS.
```

```
WRITE(*,*) TITLED,  
WRITE(*,*)  
WRITE(*,*) (EXPECTED) (NOPOWER),  
WRITE(*,*) WITH ENTRIES,  
WRITE(*,*)
```

```
DO 370 I=101,IMAT  
TEMP=MAT(I)  
IF (I.NE.IMAT) THEN  
WRITE(*,FMT='(10X,A12,A23)') TEMP,  
*, OFF,  
ELSE  
WRITE(*,FMT='(10X,A12,A23)') TEMP,  
*, OFF,  
ENDIF  
WRITE(*,*)
```

```
370 CONTINUE  
END  
*****  
*****
```

```
FORTAN PROGRAM 2  
C2345678911234567821234567893123456789412345678951234567896123456789712  
CHARACTER*60 LINE(60,3),FD(180),TEMP,TEMP2,TEMP3  
CHARACTER*80 FNAME  
CHARACTER*3 TM,BDROP(4),SDROP(4),BLIST(9)  
CHARACTER*2 TN  
DATA BLIST/'AB1','AB2','AB3','BC1','BC2','BC3','CA1','CA2','CA3'/  
FNAME='SWITCH'  
IFD=1  
ILINE=1  
NTOT=C  
OPEN(UNIT=20,FILE=FNAME,STATUS='READONLY',ERR=110)  
GOTO 120
```



VAEA6 - V1161/C16/SCAN BUS DROP CHECKOUT

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

```

110 CONTINUE
WRITE(*,*) 'ERROR...COULD NOT OPEN',FNAME
STOP
120 CONTINUE
FNAME='MATRIX'
OPEN(UNIT=21,FILE=FNAME,STATUS='READONLY',ERR=110)
130 CONTINUE
READ(20,100,END=140) (LINE(I),I=1,3)
ILINE=ILINE+1
100 FORMAT(A60)
GOTO 130
140 CONTINUE
READ(21,100,END=150) FD(IFD)
IFD=IFD+1
GOTO 140
150 CONTINUE
CLOSE(UNIT=20)
CLOSE(UNIT=21)
FNAME='FD.TEST2'
OPEN(UNIT=20,FILE=FNAME,STATUS='READONLY',ERR=110)
FNAME='FD.TEST'
OPEN(UNIT=21,FILE=FNAME,STATUS='READONLY',ERR=110)
IFD=IFD-1
ILINE=ILINE-1
I=1
DO 10 I=1,57
IF (I.LT.10) THEN
WRITE(*,FMT='(A8,I1,A11)') 'STEP 20',I,'0 CONTINUESEMCOL'
ELSE
WRITE(*,FMT='(A7,I2,A11)') 'STEP 2',I,'0 CONTINUESEMCOL'
ENDIF
WRITE(*,*)
WRITE(*,FMT='(10X,A15)') 'LET (SEQ) = 1SEMCOL'
WRITE(*,*)
WRITE(*,FMT='(10X,A13,I2,A1)') 'LET (TEST) = ',I,'SEMCOL'
WRITE(*,*)
IF (I.LT.10) THEN
WRITE(*,FMT='(A8,I1,A11)') 'STEP 20',I,'5 CONTINUESEMCOL'
ELSE
WRITE(*,FMT='(A7,I2,A11)') 'STEP 2',I,'5 CONTINUESEMCOL'
ENDIF
WRITE(*,*)
IF (I3.LT.37) THEN
READ(20,FMT='(4A5)') (BDROP(I4),I4=1,4)
IGGO=C
DO 200 I6=1,9
DO 210 I4=1,4
IF (BLIST(I6).EQ.BDROP(I4)) THEN
WRITE(*,FMT='(10X,A19,I2,A13)') 'LET (EPDC BUS) ROW ',I6,
' (LOW) = ',I,SEMCOL'
WRITE(*,FMT='(10X,A19,I2,A14)') 'LET (EPDC BUS) ROW ',I6,

```

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN-ADDR EXPANDED SOURCE STATEMENT  
 \* (HIGH) = 24VSEMCOL\*

IGGO=1

ENDIF

210 CONTINUE

200 CONTINUE

IF (IGGO.EQ.1) WRITE(\*,\*)

ENDIF

I=I+1

IF (I.GT.37) I=1

DO 15 J=1,3

IF (J.EQ.1.OR.J.EQ.2) THEN

WRITE(\*,FMT='(10X,A11,I1,A5)') 'IF (SEQ) =',J,' THEN'

ELSE

WRITE(\*,\*) 'IF (SEQ) = 3 OR (SEQ) = 4 THEN'

ENDIF

WRITE(\*,\*)

WRITE(\*,\*) 'BEGIN SEQUENCESEMCOL'

WRITE(\*,\*)

IF (I3.LT.36) THEN

REWIND(UNIT=2)

IGGO=0

180 CONTINUE

READ(21,FMT='(I2,3A3)',END=190) I5,(SDROP(I4),I4=1,3)

IFDROP=1

DO 160 I6=1,3

IF (SDROP(I6).EQ.1) GOTO 160

IF ((BDROP(1).EQ.1) .OR. SDRROP(I6).NE.BDRROP(1)).AND.

((BDROP(2).EQ.1) .OR. SDRROP(I6).NE.BDRROP(2)).AND.

((BDROP(3).EQ.1) .OR. SDRROP(I6).NE.BDRROP(3)).AND.

((BDROP(4).EQ.1) .OR. SDRROP(I6).NE.BDRROP(4))) IFDROP=0

160 CONTINUE

IF (IFDROP.EQ.1) THEN

WRITE(\*,FMT='(12X,A20,I2,A16)') 'ASSIGN (SWITCH) ROW ',I5,

((NOPOWER) = UNSEMCOL)

WRITE(\*,FMT='(12X,A20,I2,A16)') 'ASSIGN (SWITCH) ROW ',I5+1,

((NOPOWER) = UNSEMCOL)

IGGO=1

ENDIF

GOTO 180

190 CONTINUE

IF (IGGO.EQ.1) WRITE(\*,\*)

ENDIF

IGGO=0

I2=I+1

DO 20 K=1, ILINE

IFLAG=0

TEMP=LINE(K,J)

IF (TEMP(I2:I2).EQ.'\*') THEN

WRITE(\*,FMT='(12X,A20,I3,A17)') 'ASSIGN (SWITCH) ROW ',K,

((NOPOWER2) = UNSEMCOL)

WRITE(\*,FMT='(12X,A20,I2,A16)') 'ASSIGN (SWITCH) ',K,

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC EXPANDED SOURCE STATEMENT

```

* (NOPOWER) = ONSEMCOL'
WRITE(*,FMT='(12X,A20,I2,A16)') ASSIGN (SWITCH) ROW ,K+1,
TEMP(I2:I2)=+1
ENDIF
IF (TEMP(I2:I2).EQ.'M') THEN
WRITE(*,FMT='(12X,A20,I3,A17)') ASSIGN (SWITCH) ROW ,K,
(NPOWER) = ONSEMCOL'
WRITE(*,FMT='(12X,A20,I2,A16)') ASSIGN (SWITCH) ROW ,K,
(NPOWER) = ONSEMCOL'
WRITE(*,FMT='(12X,A20,I2,A16)') ASSIGN (SWITCH) ROW ,K+1,
(NPOWER) = ONSEMCOL'
WRITE(*,FMT='(12X,A20,I2,A16)') ASSIGN (SWITCH) ROW ,K+1,
(NPOWER) = ONSEMCOL'
TEMP(I2:I2)='-1'
ENDIF
IF (TEMP(I2:I2).EQ.'+') IFLAG=1
IF (J.GT.1.AND.IFLAG.EQ.0.AND.TEMP(I2:I2).NE.'-') THEN
DO 60 L=1,J
TEMP2=LINE(K/L)
IF (TEMP2(I2:I2).EQ.'+') IFLAG=1
IF (TEMP2(I2:I2).EQ.'-') IFLAG=0
60 CONTINUE
ENDIF
IF (IFLAG.EQ.0) GOTO 20
WRITE(*,FMT='(12X,A20,I3,A17)') ASSIGN (SWITCH) ROW ,K,
* (EXPECTED) = ONSEMCOL'
IGGO=1
NTOT=NTOT+1
20 CONTINUE
IF (IGGO.EQ.1) WRITE(*,*)
IGGO=0
IF (J.EQ.3) GOTO 50
NDZ=0
DO 30 L=1,IFD
TEMP=FD(L)
ND=0
IF (TEMP(I2:I2).EQ.'*') GOTO 40
IF (TEMP(I2:I2).EQ.'N') THEN
ND=1
GOTO 40
ENDIF
IF (TEMP(I2:I2).EQ.'1'.AND.J.EQ.1) GOTO 40
IF (TEMP(I2:I2).EQ.'2'.AND.J.EQ.2) GOTO 40
30 CONTINUE
40 CONTINUE
NV=1
IF (L.LT.101) NV=0
IF (ND.EQ.0) THEN
WRITE(*,FMT='(12X,A13,I1,A6,I3,A17)') ASSIGN (VALVE,NV+1,
* ' ' ROW ,L-(100*NV),' (EXPECTED) = ONSEMCOL'
ELSE
WRITE(*,FMT='(12X,A13,I1,A6,I3,A16)') ASSIGN (VALVE,NV+1,

```

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

```

IC
ISN ADDR EXPANDED SOURCE STATEMENT
*      ) ROW ,L-(100*NV),* (NPOWER) = ONSEMCOL*
      if (ND2.EQ.0) THEN
        WRITE(*,*)
        ND2=1
        LET (NVDATA) = 1SEMCOL*
      ENDIF
      ENDIF
      NTOT=NTOT+1
30 CONTINUE
50 CONTINUE
  WRITE(*,*)
  WRITE(*,*)      END SEQUENCESEMCOL*
  WRITE(*,*)
15 CONTINUE
  WRITE(*,*)      GOTO STEP 1000SEMCOL*
  WRITE(*,*)
10 CONTINUE
  CLOSE(UNIT=20)
  CLOSE(UNIT=21)
  C  WRITE(*,*) 'NTOT=',NTOT
  END
*****
$*****
FORTRAN PROGRAM 3
C234567
CHARACTER*100 LINE
CHARACTER*80 FNAME,FORM
FORM='A00'
FNAME='VAEA6'
OPEN(UNIT=20,FILE=FNAME,STATUS='READONLY',ERR=110)
GOTO 120
110 CONTINUE
  WRITE(*,*) 'ERROR...COULD NOT OPEN ',FNAME
  STOP
120 CONTINUE
  READ(20,100,END=99) LINE
100 FORMAT(A100)
C
C READ INSERT 1 AND INSERT 2, EXAMPLE: AT INSERT 1, YOU WOULD
C FIND THE FOLLOWING LINE:
C ## PROG1
C AND THERE WOULD EXIST A FILE 'PROG1' WITH THE OUTPUT OF
C FORTRAN PROGRAM 1.
C
  IF (LINE(1:3).EQ.'##') THEN
    FNAME=LINE(5:80)
    OPEN(UNIT=21,FILE=FNAME,STATUS='READONLY',ERR=110)
130 CONTINUE
    READ(21,100,END=140) LINE
140=1
    GOTO 200

```

,VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

```

IC
ISN ADDR EXPANDED SOURCE STATEMENT
140 CONTINUE
CLOSE(UNIT=24)
GOTO 120
ENDIF
IGO=0
200 CONTINUE
DO 210 I=100,1,-1
IF (LINE(I+1).NE.1) GOTO 220
210 CONTINUE
I=1
220 CONTINUE
WRITE(FORM(3:4),FMT=(I2)) I
WRITE(*,FMT=FORM) LINE(I:I)
340 FORMAT(A80)
230 CONTINUE
IF (I.GE.1) GOTO 130
GOTO 120
999 CONTINUE
CLOSE(UNIT=20)
END
*****
MATH MODEL PROCEDURE BUILDER
C23456789112345678912345678912345678951234567896123456789712
CHARACTER*60 LINE(60,3),FD(180),TEMP,TEMP2,TEMP3
CHARACTER*80 FNAME,LINEP,LINEP2
CHARACTER*30 AFORM
CHARACTER*12 SWIT(30),SWH
CHARACTER*5 PROC(3)
CHARACTER*4 VOLT
CHARACTER*3 TM,BDROP(4),SDROP(3),BLIST(9)
CHARACTER*2 TN
INTEGER ELIST(9),EHOLD(9),ESAVE(9),SLIST(30)
DATA BLIST/'AB1','AB2','AB3','BC1','BC2','BC3','CA1','CA2','CA3'/
DATA ELIST/120,121,122,220,221,222,320,321,322/'EHOLD/9*0/
DATA PROC/'VPE4','VPE42','VPE43','ESAVE/9*0','SLIST/50*0/
DATA SWIT/'QS5R2HEISAC','QS12R2HEISBC','QS56R2HEISAL',
*'QS13R2HEISBL','QS17R2HEISAR','QS14R2HEISBR','QS09R2HEINTC',
*'QS10R2HEINTL','QS11R2HEINTR','QS11R4L02PV1','QS14R4LH2PV4',
*'QS07R4LH2P12','QS12R4L02PV2','QS15R4LH2PV5','QS07R4L02P10',
*'QS08R4LH2P11','QS02R4LH2L42','QS13R4L02PV3','QS16R4LH2PV6',
*'QS17R4L02PV7','QS18R2LH2PV8','QS01R4L02L40','QS06R4L02PV9',
*'QS10R4LH2L52','QS53R2LHIFLO','QS15R2HEIS ','QS01R2L02DMP',
*'QS01R2L02DMP','QS18R4LH2DMP','QS18R4LH2DMP'/
FNAME='SWITCH'
IFD=1
ILINE=1
NTOT=0
OPEN(UNIT=20,FILE=FNAME,STATUS='READONLY',ERR=110)
GOTO 120
110 CONTINUE

```

VAE66 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE66 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
WRITE(\*,\*) 'ERROR...COULD NOT OPEN ', FNAME  
STOP

120 CONTINUE

FNAME=MATRIX

OPEN(UNIT=21,FILE=FNAME,STATUS='READONLY',ERR=110)

130 CONTINUE

READ(20,100,END=140) (LINE(ILINE,I),I=1,3)

ILINE=ILINE+1

100 FORMAT(A60)

GOTO 130

140 CONTINUE

READ(21,100,END=150) FD(IFD)

IFD=IFD+1

GOTO 140

150 CONTINUE

CLOSE(UNIT=20)

CLOSE(UNIT=21)

FNAME=FD.TEST2

OPEN(UNIT=20,FILE=FNAME,STATUS='READONLY',ERR=110)

FNAME=FD.TEST

OPEN(UNIT=21,FILE=FNAME,STATUS='READONLY',ERR=110)

IFD=IFD-1

ILINE=ILINE-1

I=1

DO 10 I3=1,37

IF (I3.EQ.1.OR.I3.EQ.11.OR.I3.EQ.21) THEN

AFORM='(A48)'

DO 30 IP9=1,9

EHOLD(IP9)=0

30 CONTINUE

IF (I3.EQ.1) THEN

IP=1

LINEP=' GO TO (S01,S02,S03,S04,S05,S06,S07,S08,S09,S10)'

ENDIF

IF (I3.EQ.11) THEN

IP=2

LINEP=' GO TO (S11,S12,S13,S14,S15,S16,S17,S18,S19,S20)'

ENDIF

IF (I3.EQ.21) THEN

IP=3

LINEP=' GO TO (S21,S22,S23,S24,S25,S26,S27,S28,S29,S30)'

LINEP2=' S31,S32,S33,S34,S35,S36,S37)'

ENDIF

WRITE(\*,\*) '(A15,A57A12) \* \* \* \* \* BEGIN PROGRAM (\*,PROCTIP),

\* \* \* \* \* (OPTION1)SEMCOL'

WRITE(\*,\*) 'DOLLAR\*\*\*\*\*'\*\*\*\*\*

WRITE(\*,\*) ' ;

WRITE(\*,\*) ' ;

WRITE(\*,\*) ' ;

WRITE(\*,\*) ' ;

WRITE(\*,\*) ' ;

WRITE(\*,\*) ' ;

MAIN PROPULSION SYSTEM

DESCRIPTION: THIS PROCEDURE IS USED TO DO

GOAL PROGRAM CHECKOUT

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

```

ISN ADDR EXPANDED SOURCE STATEMENT
WRITE(*,*) '
WRITE(*,*) ' ORGANIZATION: LOCKHEED SPACE OPERATIONS CO. '
WRITE(*,*) '
WRITE(*,*) ' MODELER: STEVE COLUBIALE
WRITE(*,*) '
WRITE(*,*) ' PHONE: 7-6680
WRITE(*,*) '
WRITE(*,*) ' REV. DATE DESCRIPTION OF CHANGE
WRITE(*,*) ' ---- -
WRITE(*,*) '
WRITE(*,*) ' 08 07-15-88 CHANGE BUS AND SWITCH
WRITE(*,*) ' 07 07-28-87 CHANGE BUS AND SWITCH
WRITE(*,*) ' 06 02-03-87 CHANGE BUS AND SWITCH
WRITE(*,*) ' 05 04-20-87 CHANGE BUS DROPS
WRITE(*,*) ' 04 01-13-87
WRITE(*,*) '
WRITE(*,*) ' *****
WRITE(*,*) ' DECLARE QUANTITY (OPTION1) SEMCOL
WRITE(*,*) ' USE (V41DA) SEMCOL
WRITE(*,*) '
WRITE(*,*) ' *****DOLLAR '
IF (IP.EQ.3) WRITE(*,FMT=AFORM) LINEP2
IF (I3.EQ.1) THEN
WRITE(*,*) ' (OPTION1) SEMCOL
ELSE
WRITE(*,FMT=(A12,I2,A2)) ' (OPTION1)=I3-I1 SEMCOL
ENDIF
WRITE(*,*) '
WRITE(*,*) ' GO TO STEP 200 SEMCOL
WRITE(*,*) '
ENDIF
IF (I<GT.9) THEN
WRITE(*,FMT=(A1,I2,A13,A41)) ' S,I, DISPLAY TEXT',
*(#939283#SET QMPPROCSTEP ON TO DROP BUS) SEMCOL
ELSE
WRITE(*,FMT=(A2,I1,A13,A41)) ' SU,I, DISPLAY TEXT',
*(#939283#SET QMPPROCSTEP ON TO DROP BUS) SEMCOL
ENDIF
WRITE(*,*) ' DELAY UNTIL <QMPPROCSTEP> IS ON SEMCOL
61 CONTINUE
WRITE(*,*) '
IF (I3<LT.37) THEN
VOLT=' 0.U'
READ(20,FMT=(4A3)) (BDR0P(I4),I4=1,4)
ELSE
VOLT='28.U SEMCOL'
BDR0P(1)='AAA'
BDR0P(2)='AAB'
BDR0P(3)='AAB'
ENDIF
IGGO=0

```

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

```

ISN ADDR EXPANDED SOURCE STATEMENT
DO 200 I6=1,9
  ESAVE(I6)=0
  DO 210 I4=1,4
    IF ((BLIST(I6).EQ.BDROP(I4)).OR.(BDROP(I4).EQ.'AAA')) THEN
      WRITE(*,FMT=(A10,A4,A11,A3,A3))'APPLY 'VOLT,
** TO <COMPTEL,BLIST(I6)>'>SEMCOL'
      IF (EHOLD(I6).EQ.0) WRITE(*,*) 'USE (V76DB)SEMCOL'
      WRITE(*,FMT=(A15,A3,A7,A4,A1))'IFAIL <V76V0>ELIOT(I6),
** A1> TO 'VOLT,SEMCOL'
      IF (EHOLD(I6).EQ.0) THEN
        WRITE(*,*) 'USE (V41DA)SEMCOL'
        EHOLD(I6)=1
      ENDIF
      IF ((I7.L7.37) .ESAVE(I6))=1
        IGG0=1
      ENDIF
210 CONTINUE
200 CONTINUE
  IF (IGG0.EQ.1) WRITE(*,*) ' '
  I=I+1
  IF (I.GT.37) I=1
  DO 80 J=1,30
    SLIST(J)=0
80 CONTINUE
  DO 15 J=1,3
    WRITE(*,FMT=(3X,A54,I1,A2))
** DISPLAY TEXT(#939283#SET QMPPROCSTEP ON TO START STEP ',J,')SEMCOL'
    WRITE(*,*) ' DELAY UNTIL <QMPPROCSTEP> IS ONSEMCOL'
    WRITE(*,*) ' '
    IGG0=0
    I2=I+13
    DO 20 K=1,I2-I
      IFLAG=0
      TEMP=LINE(K,J)
      IF (TEMP(I2:I2).EQ.'N') TEMP(I2:I2)='+'
      IF (TEMP(I2:I2).EQ.'M') TEMP(I2:I2)='-'
      IPOS=-1
      IF (K72.NE.(K+0)/72.0) IPOS=1
      IF (IPOS.EQ.1) THEN
        TEMP2=LINE(K+1,J)
        IF (TEMP2(I2:I2).EQ.'N') TEMP2(I2:I2)='+'
        IF (TEMP2(I2:I2).EQ.'M') TEMP2(I2:I2)='-'
        IF (TEMP(I2:I2).EQ.'-' .AND. TEMP2(I2:I2).EQ.'-' ) IFLAG=2
      ENDIF
      IF (TEMP(I2:I2).EQ.'+') IFLAG=1
      IF (J.GT.1 .AND. IFLAG.EQ.0 .AND. TEMP(I2:I2).NE.'-' ) THEN
        DO 60 L=1,J
          TEMP2=LINE(K,L)
          IF (TEMP2(I2:I2).EQ.'N') TEMP2(I2:I2)='+'
          IF (TEMP2(I2:I2).EQ.'M') TEMP2(I2:I2)='-'
          IF (TEMP2(I2:I2).EQ.'+') IFLAG=1
        
```



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

```

IC
ISN ADDR EXPANDED SOURCE STATEMENT
IF (TEMP2(I2:I2).EQ.'-') IFLAG=3
60 CONTINUE
ENDIF
IF (IFLAG.EQ.0) GOTO 20
I9=K/2.0+0.75
SWH=SWIT(I9)
IF (IFLAG.EQ.2) IPOS=0
IF (IPOS.NE.SLIST(I9)) THEN
IF (I9.NE.25) THEN
WRITE(*,FMT=(I2X,A6,I2,A7,A12,A2))
* 'APPLY ',IPOS,' U TO <',SWH,'>SEMCOL'
ELSE
IF (IPOS.EQ.1) THEN
WRITE(*,FMT=(I2X,A5,A12,A8)) SET <',SWH,'> TO ONSEMCOL'
ELSE
WRITE(*,FMT=(I2X,A5,A12,A9)) SET <',SWH,'> TO OFFSEMCOL'
ENDIF
ENDIF
ENDIF
SLIST(I9)=IPOS
IGGO=1
NTOT=NTOT+1
20 CONTINUE
IF (IGGO.EQ.1) WRITE(*,*)
WRITE(*,*) DISPLAY TEXT(#939285) SET QMPPROCSTEP ON TO REINIT'
* ' PWR SWITCHES/SEMCOL'
WRITE(*,*) ' DELAY UNTIL <QMPPROCSTEP> IS UNSEMCOL'
WRITE(*,*)
DO 70 J=1,9
IF (ESAVE(J).EQ.1) THEN
VOLT=28.0
WRITE(*,FMT=(A10,A4,A11,A3,A3)) 'APPLY ',VOLT,
* TO <QMPCTL>BLIST(J)'>SEMCOL'
WRITE(*,FMT=(A15,I3,A7,A4,A1)) ' FAIL <V76V0>ELIST(J)'
* A1> TO ',VOLT,'SEMCOL'
ENDIF
70 CONTINUE
DO 90 K=1,30
IPOS=0
IF (SLIST(K).NE.0) THEN
SWH=SWIT(K)
IF (K.NE.25) THEN
WRITE(*,FMT=(I2X,A6,I2,A7,A12,A2)) 'APPLY ',IPOS,' U TO <
* ',SWH,'>SEMCOL'
ELSE
WRITE(*,FMT=(I2X,A5,A12,A9)) SET <',SWH,'> TO OFFSEMCOL'
ENDIF
ENDIF
90 CONTINUE
WRITE(*,*)

```

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
WRITE(\*,\*) , GO TO S200SEMCOL  
WRITE(\*,\*)

IF (I3.EQ.10.OR.I3.EQ.20.OR.I3.EQ.37) THEN

WRITE(\*,\*)

WRITE(\*,FM1='(A44)')

\* S200 DISPLAY TEXT(#939203#END OF PROCEDURE)SEMCOL  
WRITE(\*,\*) TERMINATESEMCOL  
WRITE(\*,\*) END PROGRAMSEMCOL

ENDIF

10 CONTINUE  
CLOSE(UNIT=20)  
CLOSE(UNIT=21)  
END

\*\*\*\*\*5

2 DECLARE NUMBER (AGAIN) =0, \$ IF THIS EQUALS 1, REVERIFY LAST ERROR. \$

(AREAT1FMT) =0, \$ READ FROM AREA 1 FORMAT INTO THIS. \$

(AREAT2FMT) =0, \$ SAVE AREA 1 FORMAT FROM LAST READ. \$

(AREAT3FMT) =0, \$ READ FROM AREA 2 FORMAT INTO THIS. \$

(AREAT4FMT) =0, \$ SAVE AREA 2 FORMAT FROM LAST READ. \$

(AREAT5FMT) =0, \$ READ FROM AREA 3 FORMAT INTO THIS. \$

(AREAT6FMT) =0, \$ SAVE AREA 3 FORMAT FROM LAST READ. \$

(ARROW) =0, \$ WHAT COLOR TO PUT SWITCH OUT ON PAGE \$

(COLOR) =0, \$ WHAT COLOR TO PUT SWITCH OUT ON PAGE \$

(DUMP1) =0, \$ 0 = LOX DUMP SWITCH NOT SET, 1=DUMP SET \$

(DUMP2) =0, \$ 0 = LH2 DUMP SWITCH NOT SET, 1=DUMP SET \$

(EPCOUNT) =0, \$ LOOP COUNTER FOR EPDC \$

(EPCOUNT2) =0, \$ LOOP COUNTER FOR EPDC \$

(ERROR) =0, \$ EQUALS 1, ERROR IN SWITCH SCAN \$

(ERRORCOL) =0, \$ EQUALS 1, ERROR IN CURRENT TEST \$

(ERRORPDC) =0, \$ EQUALS 1, ERROR IN EPDC BUS SCAN \$

(HE ISO MATED) =0, \$ THE ISO'S ARE MATED, 2=HE ISO'S NOT MATED \$

(HE ISO RELIEF) =0, \$ 0=NO HELIUM ISO'S WILL BLOW RELIEF  
>0 RELIEF MAY BLOW. \$

(ICGO) =0, \$ HOLDS IN UPDATE LOOP UNTIL ICGO=2 \$

(LASTPOS) =0, \$ LAST POSITION LAST SWITCH WAS TURNED TO  
THIS IS SAVED SO THAT PROGRAM DOES NOT  
OUTPUT POSITION OF SWITCH EVERY TIME. \$

(NEXTLINE) =4, \$ NEXT LINE TO OUTPUT ON PAGE-B \$

(NG1) =0, \$ NO GO/GO HE ISO B SWITCH \$

(NG2) =0, \$ NO GO/GO HE INTECCONNECT SWITCH \$

(NNGO) =0, \$ GO OR NNGO IF HE ISO'S HAVE ENOUGH PRESSURE \$

(NUMLINES) =0, \$ NUMBER OF LINES IN SWITCHES OUTPUT TO  
PAGE-B. THIS IS KEPT SO THAT MESSAGES  
DON'T WRAP AROUND ON TOP OF EACH OTHER. \$

(MVDATA) =0, \$ MVD OF INDICATOR NOT POWERED \$

(POS) =0, \$ POSITION SWITCH SHOULD BE IN.  
1=OPEN  
2=CLOSE  
3=GFC  
4=IN OPEN/OUT CLOSE

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAE6 REV 77

IC ISN ADDR EXPANDED SOURCE STATEMENT

5=IN CLOSED/OUT OPEN

6=GND

995=BAD ARRAY, PROGRAMMING PROBLEM

999=BAD SWITCH, HARDARE PROBLEM \$

(PNEU TEST) =0, \$ 0=NORMAL BUS TEST CURRENTLY BEING RUN

(PTEST CLR) =0, \$ 0=REFRESH PAGE, 1=GOTO REGULAR TESTS \$

(OIFMT) =0, \$ READ FROM OI FORMAT INTO THIS. \$

(OIFMTS) =0, \$ SAVE OI FORMAT FROM LAST READ. \$

(SEQ) =0, \$ WHICH PART OF TEST (1,2,OR 3) \$

(STEP) =1, \$ NUMBER OF TIMES THRU LOOP \$

(SWITCH NAME) =0, \$ WHICH SWITCH TO BE OUTPUT \$

(TERMPGM) =0, \$ IF 1, THEN TERMING PROGRAM IN PROGRESS. \$

(TEST) =0, \$ WHICH TEST (1 THRU 4) \$ INITIALIZE \$

(TESTB) =0, \$ USED TO DETERMINE ATTEMPT TO CONTINUE PAST TEST NUMBER 40. \$

(TEST IS CIG OR SCAN) =0, \$ 1=V1161 BUS DROP, 2=CIG/SCAN RETEST \$

(TMP) =0, \$ VARIABLE TO BE USED FOR REPEAT LOOP. \$

(TMPP1) =0, \$ VARIABLE TO BE USED WHEN DETERMINING SWITCHES

(TMPP2) =0, \$ VARIABLE TO BE USED FOR REPEAT LOOP. \$

(TPOS) =0, \$ TEMPORARY HOLDER OF POSITION INDICATOR. \$

3 DECLARE QUANTITY (AB1) = V, \$ READ IN VALUE OF CONTROL BUS AB1 \$

(AB2) = V, \$ READ IN VALUE OF CONTROL BUS AB2 \$

(AB3) = V, \$ READ IN VALUE OF CONTROL BUS AB3 \$

(BC1) = V, \$ READ IN VALUE OF CONTROL BUS BC1 \$

(BC2) = V, \$ READ IN VALUE OF CONTROL BUS BC2 \$

(BC3) = V, \$ READ IN VALUE OF CONTROL BUS BC3 \$

(CA1) = V, \$ READ IN VALUE OF CONTROL BUS CA1 \$

(CA2) = V, \$ READ IN VALUE OF CONTROL BUS CA2 \$

(CA3) = V, \$ READ IN VALUE OF CONTROL BUS CA3 \$

(PRESS) = PSIA, \$ READ IN VALUE OF REG OUT \$

(PRESS1) = PSIA, \$ READ IN VALUE OF REG OUT PRESS \$

(PRESST) = PSIA, \$ HOLD VALUE OF REG OUT PRESS \$

(PRESS2) = PSIA, \$ READ IN VALUE OF ACCUM PRESS \$

(PRESSZ) = PSIA, \$ HOLD VALUE OF ACCUM PRESS \$

4 DECLARE STATE (ABTD) = OFF, \$ OFF<24V, ON>24V OF CONTROL BUS AB1 \$

(AB1DS) = OFF, \$ LAST VALUE OF AB1D \$

(AB2D) = OFF, \$ OFF<24V, ON>24V OF CONTROL BUS AB2 \$

(AB2DS) = OFF, \$ LAST VALUE OF AB2D \$

(AB3D) = OFF, \$ OFF<24V, ON>24V OF CONTROL BUS AB3 \$

(AB3DS) = OFF, \$ LAST VALUE OF AB3D \$

(AREADV) = OFF, \$ READ VALUE OF AREA1 \$

(AREA1DS) = OFF, \$ LAST STORED VALUE OF AREA1 \$

(AREAD2V) = OFF, \$ READ VALUE OF AREA2 \$

(AREA2DS) = OFF, \$ LAST STORED VALUE OF AREA2 \$

(AREAD3V) = OFF, \$ READ VALUE OF AREA3 \$

(AREA3DS) = OFF, \$ LAST STORED VALUE OF AREA3 \$

(BC1D) = OFF, \$ OFF<24V, ON>24V OF CONTROL BUS BC1 \$

(BC1DS) = OFF, \$ LAST VALUE OF BC1D \$

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

(BC2D) = OFF, \$ OFF<24V, ON>24V OF CONTROL BUS BC2 \$  
 (~~BC2D~~) = ~~OFF, \$ LAST VALUE OF BC2D \$~~  
 (BC3D) = OFF, \$ OFF<24V, ON>24V OF CONTROL BUS BC3 \$  
 (~~BC3D~~) = ~~OFF, \$ LAST VALUE OF BC3D \$~~  
 (CA1D) = OFF, \$ OFF<24V, ON>24V OF CONTROL BUS CA1 \$  
 (~~CA1D~~) = ~~OFF, \$ LAST VALUE OF CA1D \$~~  
 (CA2D) = OFF, \$ OFF<24V, ON>24V OF CONTROL BUS CA2 \$  
 (~~CA2D~~) = ~~OFF, \$ LAST VALUE OF CA2D \$~~  
 (CA3D) = OFF, \$ OFF<24V, ON>24V OF CONTROL BUS CA3 \$  
 (~~CA3D~~) = ~~OFF, \$ LAST VALUE OF CA3D \$~~  
 (HDA) = OFF, \$ VALJE OF HDA \$  
 (~~HDA~~) = ~~OFF, \$ LAST VALUE OF HDA \$~~  
 (IDLE) = OFF, \$ ON = NOT RUNNING ANY TEST, OFF = IN TEST \$  
 (~~IDLE~~) = ~~OFF, \$ VALUE OF IDLE \$~~  
 (OIDVS) = OFF, \$ LAST VALUE OF OIDV \$  
 (UFLAG) = ON, \$ UPDATE FLAG, ON= UPDATE EVERYTHING. \$  
 (UFLAG2) = ON ; \$ UPDATE FLAG, ON= START OF UPDATE LOOP. \$

5 DECLARE TEXT (TESTNAME) = 32 CHARACTERS, \$ NAME OF CURRENT  
 (NSWITCH NAME)= 37 CHARACTERS; \$ NAME OF SWITCH TO BE OUTPUT \$  
 OR LAST TEST RUN. \$

\$INSERT 1\$

6 DECLARE TEXT LIST (POSITION)

WITH 9 ENTRIES

TEXT(OPEN),

TEXT(CLOSE),

TEXT(GPC),

TEXT(IN OPEN),

TEXT(OUT OPEN),

TEXT(GND),

TEXT(AUTO),

TEXT(START),

TEXT(STOP);

7 DECLARE QUANTITY TABLE (EPDC BUS)

WITH 9 ROWS AND 2 COLUMNS

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

IC EXPANDED SOURCE STATEMENT

ISN ADDR REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

TITLED (LOW), (HIGH)

WITH ENTRIES

- <V76V0120A1 \$CONTROL BUS AB1 VOLTAGE\$> 24V, 34V,
- <V76V0121A1 \$CONTROL BUS AB2 VOLTAGE\$> 24V, 34V,
- <V76V0122A1 \$CONTROL BUS AB3 VOLTAGE\$> 24V, 34V,
- <V76V0220A1 \$CONTROL BUS BC1 VOLTAGE\$> 24V, 34V,
- <V76V0221A1 \$CONTROL BUS BC2 VOLTAGE\$> 24V, 34V,
- <V76V0222A1 \$CONTROL BUS BC3 VOLTAGE\$> 24V, 34V,
- <V76V0320A1 \$CONTROL BUS CA1 VOLTAGE\$> 24V, 34V,
- <V76V0321A1 \$CONTROL BUS CA2 VOLTAGE\$> 24V, 34V,
- <V76V0322A1 \$CONTROL BUS CA3 VOLTAGE\$> 24V, 34V,

8 DECLARE STATE TABLE (SWITCH)

WITH 60 ROWS AND 4 COLUMNS

TITLED

(EXPECTED), (ACTUAL), (NOPOWER), (NOPOWER2)

WITH ENTRIES

- <V41S1155E1 \$MPS E1 HE ISO VLV A(LV1) OP SW SCNS\$> OFF, OFF, OFF,
- <V41S1165E1 \$MPS E1 HE ISO VLV A(LV1) CL SW SCNS\$> OFF, OFF, OFF,
- <V41S1156E1 \$MPS E1 HE ISO VLV B(LV2) OP SW SCNS\$> OFF, OFF, OFF,
- <V41S1166E1 \$MPS E1 HE ISO VLV B(LV2) CL SW SCNS\$> OFF, OFF, OFF,
- <V41S1255E1 \$MPS E2 HE ISO VLV A(LV3) OP SW SCNS\$> OFF, OFF, OFF,
- <V41S1265E1 \$MPS E2 HE ISO VLV A(LV3) CL SW SCNS\$> OFF, OFF, OFF,



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT  
OFF,

<V41S1412E1 \$MPS LH2 INBD F/D (PV12) CL SW SCN\$> OFF, OFF, OFF, OFF,

<V41S1236E1 \$MPS E2 L02 PREVLV (PV2) OP SW SCN\$> OFF, OFF, OFF, OFF,

<V41S1239E1 \$MPS E2 L02 PREVLV (PV2) CL SW SCN\$> OFF, OFF, OFF, OFF,

<V41S1219E1 \$MPS E2 LH2 PREVLV (PV5) OP SW SCN\$> OFF, OFF, OFF, OFF,

<V41S1222E1 \$MPS E2 LH2 PREVLV (PV5) CL SW SCN\$> OFF, OFF, OFF, OFF,

<V41S1511E1 \$MPS L02 INBD F/D (PV10) OP SW SCN\$> OFF, OFF, OFF, OFF,

<V41S1512E1 \$MPS L02 INBD F/D (PV10) CL SW SCN\$> OFF, OFF, OFF, OFF,

<V41S1391E1 \$MPS LH2 OTBD F/D (PV11) OP SW SCN\$> OFF, OFF, OFF, OFF,

<V41S1393E1 \$MPS LH2 OTBD F/D (PV11) CL SW SCN\$> OFF, OFF, OFF, OFF,

<V41S1435E1 \$MPS LH2 MANF REPRSS VLVS OP SW SCN\$> OFF, OFF, OFF, OFF,

<V41S1431E1 \$MPS LH2 MANF REPRSS VLVS CL SW SCN\$> OFF, OFF, OFF, OFF,

<V41S1336E1 \$MPS E3 L02 PREVLV (PV3) OP SW SCN\$> OFF, OFF, OFF, OFF,

<V41S1339E1 \$MPS E3 L02 PREVLV (PV3) CL SW SCN\$> OFF, OFF, OFF, OFF,

<V41S1319E1 \$MPS E3 LH2 PREVLV (PV6) OP SW SCN\$> OFF, OFF, OFF, OFF,

<V41S1322E1 \$MPS E3 LH2 PREVLV (PV6) CL SW SCN\$> OFF, OFF, OFF, OFF,

<V41S1543E1 \$MPS L02 F0LN RLF SOV(PV7) OP SW SCN\$> OFF, OFF, OFF, OFF,

<V41S1547E1 \$MPS L02 F0LN RLF SOV(PV7) CL SW SCN\$> OFF, OFF, OFF, OFF,

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN-ADDR EXPANDED SOURCE STATEMENT

OFF,	<V41S1443E1 \$MPS LH2 FDLN RLF SOV(PV8)OP SW SCNS\$>	OFF,	OFF,	OFF,
OFF,	<V41S1447E1 \$MPS LH2 FDLN RLF SOV(PV8)CL SW SCNS\$>	OFF,	OFF,	OFF,
OFF,	<V41S1535E1 \$MPS L02 MANF REPRSS VLV5 OP SW SCNS\$>	OFF,	OFF,	OFF,
OFF,	<V41S1531E1 \$MPS L02 MANF REPRSS VLV5-CL SW SCNS\$>	OFF,	OFF,	OFF,
OFF,	<V41S1518E1 \$MPS L02 OTBD F/D (PV9) OP SW SCNS\$>	OFF,	OFF,	OFF,
OFF,	<V41S1515E1 \$MPS L02 OTBD F/D (PV9) CL SW SCNS\$>	OFF,	OFF,	OFF,
OFF,	<V41S1493E1 \$MPS GH2 PR LN VENT(LV52) OP SW SCNS\$>	OFF,	OFF,	OFF,
OFF,	<V41S1494E1 \$MPS GH2 PR LN VENT(LV52) CL SW SCNS\$>	OFF,	OFF,	OFF,
OFF,	<V41S1477E1 \$MPS LH2 ULL PRESS HI FLOW SW SCNS\$>	OFF,	OFF,	OFF,
OFF,	<V41X1661E1 \$MPS GH2 PRESS FCV 1 (LV56) CL PWR\$>	OFF,	OFF,	OFF,
F,	<V41S1607E1 \$MPS PNEU HE ISO VLV5 OP SW SCNS\$>	OFF,	OFF,	OF
F,	<V41S1609E1 \$MPS PNEU HE ISO VLV5 CL SW SCNS\$>	OFF,	OFF,	OF
ff,	<V72K0081XL \$MPS PRPLT DUMP SEQUENCE START AS\$>	OFF,	OFF,	0
F,	<V72K0083XL \$MPS PRPLT DUMP SEQUENCE STOP AS\$>	OFF,	OFF,	OF
ff,	<V72K0082XL \$MPS PRPLT DUMP SEQUENCE START BS\$>	OFF,	CFF,	OFF,
F,	<V72K0084XL \$MPS PRPLT DUMP SEQUENCE STOP BS\$>	OFF,	OFF,	OF
F,	<V72K0085XL \$MPS PRPLT DUMP BKUP LH2 VLV OPEN A\$>	OFF,	OFF,	OFF,



VAEAG - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEAG REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEAG REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT  
OFF,

<V72K0087XL \$MPS PRPLT DUMP BKUP LH2 VLV CL A\$> OFF, OFF, OFF, OFF,

<V72K0086XL \$MPS PRPLT DUMP BKUP LH2 VLV OPEN-B\$> OFF, OFF, OFF, OFF,

<V72K0088XL \$MPS PRPLT DUMP BKUP LH2 VLV CL B\$> OFF, OFF, OFF, OFF,

DECLARE STATE TABLE (VALVE1)

WITH 100 ROWS AND 2 COLUMNS

TITLED

WITH ENTRIES

<V41X1102E1 \$MPS E1 LH2 PREVLV CL PWR (LV19)\$> OFF, OFF, OFF,

<V41X1103E1 \$MPS E1 LH2 PREVLV OP PWR (LV18)\$> OFF, OFF, OFF,

<V41X1105E1 \$MPS E1 L02 PREVLV CL PWR 1 (LV15)\$> OFF, OFF, OFF,

<V41X1103E1 \$MPS E1 L02 PREVLV OP PWR 1 (LV12)\$> OFF, OFF, OFF,

<V41X1104E1 \$MPS E1 L02 PREVLV CL PWR 2 (LV80)\$> OFF, OFF, OFF,

<V41X1105E1 \$MPS E1 L02 PREVLV OP PWR 2 (LV83)\$> OFF, OFF, OFF,

<V41X1158E1 \$MPS E1 HE ISO VLV A (LV1) OP PWR\$> OFF, OFF, OFF,

<V41X1159E1 \$MPS E1 HE ISO VLV B (LV2) OP PWR\$> OFF, OFF, OFF,

<V41X1104E1 \$MPS E1 HE INTCN IN (LV59) OP PWR\$> OFF, OFF, OFF,

<V41X1170E1 \$MPS E1 HE INTCN OUT (LV60) OP PWR\$> OFF, OFF, OFF,

<V41X1202E1 \$MPS E2 LH2 PREVLV CL PWR (LV21)\$> OFF, OFF, OFF,

<V41X1203E1 \$MPS E2 LH2 PREVLV OP PWR (LV20)\$> OFF, OFF, OFF,

<V41X1232E1 \$MPS E2 L02 PREVLV CL PWR 1 (LV15)\$> OFF, OFF, OFF,

<V41X1233E1 \$MPS E2 L02 PREVLV OP PWR 1 (LV14)\$> OFF, OFF, OFF,

<V41X1244E1 \$MPS E2 L02 PREVLV CL PWR 2 (LV81)\$> OFF, OFF, OFF,

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

IC  
ISN ADDR EXPANDED SOURCE STATEMENT  
IC  
VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

ISN ADDR	EXPANDED SOURCE STATEMENT	IC	VAEA6	REV
<V41X1245E1 \$MPS E2 L02 PREVLV OP PWR 2 (LV84)\$>	OFF,	OFF,	OFF,	OFF,
<V41X1258E1 \$MPS E2 HE ISO VLV A (LV3) OP PWR\$>	OFF,	OFF,	OFF,	OFF,
<V41X1259E1 \$MPS E2 HE ISO VLV B (LV4) OP PWR\$>	OFF,	OFF,	OFF,	OFF,
<V41X1264E1 \$MPS E2 HE INTCN IN (LV61) OP PWR\$>	OFF,	OFF,	OFF,	OFF,
<V41X1270E1 \$MPS E2 HE INTCN OUT (LV62) OP PWR\$>	OFF,	OFF,	OFF,	OFF,
<V41X1302E1 \$MPS E3 LH2 PREVLV CL PWR (LV23)\$>	OFF,	OFF,	OFF,	OFF,
<V41X1303E1 \$MPS E3 LH2 PREVLV OP PWR (LV22)\$>	OFF,	OFF,	OFF,	OFF,
<V41X1332E1 \$MPS E3 L02 PREVLV CL PWR 1 (LV17)\$>	OFF,	OFF,	OFF,	OFF,
<V41X1333E1 \$MPS E3 L02 PREVLV OP PWR 1 (LV16)\$>	OFF,	OFF,	OFF,	OFF,
<V41X1344E1 \$MPS E3 L02 PREVLV CL PWR 2 (LV82)\$>	OFF,	OFF,	OFF,	OFF,
<V41X1345E1 \$MPS E3 L02 PREVLV OP PWR 2 (LV85)\$>	OFF,	OFF,	OFF,	OFF,
<V41X1358E1 \$MPS E3 HE ISO VLV A (LV5) OP PWR\$>	OFF,	OFF,	OFF,	OFF,
<V41X1359E1 \$MPS E3 HE ISO VLV B (LV6) OP PWR\$>	OFF,	OFF,	OFF,	OFF,
<V41X1364E1 \$MPS E3 HE INTCN IN (LV63) OP PWR\$>	OFF,	OFF,	OFF,	OFF,
<V41X1370E1 \$MPS E3 HE INTCN OUT (LV64) OP PWR\$>	OFF,	OFF,	OFF,	OFF,
<V41X1385E1 \$MPS LH2 OTBD F/D VLV CL PWR (LV33)\$>	OFF,	OFF,	OFF,	OFF,
<V41X1386E1 \$MPS LH2 OTBD F/D VLV OP PWR (LV32)\$>	OFF,	OFF,	OFF,	OFF,
<V41X1405E1 \$MPS LH2 INBD F/D VLV CL PWR (LV35)\$>	OFF,	OFF,	OFF,	OFF,
<V41X1406E1 \$MPS LH2 INBD F/D VLV OP PWR (LV34)\$>	OFF,	OFF,	OFF,	OFF,
<V41X1436E1 \$MPS LH2 MANF REPRSS 1(LV42) OP PWR\$>	OFF,	OFF,	OFF,	OFF,
<V41X1438E1 \$MPS LH2 MANF REPRSS 2(LV43) OP PWR\$>	OFF,	OFF,	OFF,	OFF,
<V41X1449E1 \$MPS LH2 FDLN RLF SOV CL PWR (LV25)\$>	OFF,	OFF,	OFF,	OFF,
<V41X1458E1 \$MPS LH2 TOPPING VLV OP PWR (LV39)\$>	OFF,	OFF,	OFF,	OFF,
<V41X1467E1 \$MPS LH2 HI PT BL VLV OP PWR (LV79)\$>	OFF,	OFF,	OFF,	OFF,
<V41X1468E1 \$MPS LH2 HI PT 3L VLV (PV22) OP INDS\$>	OFF,	OFF,	OFF,	OFF,
<V41X1492E1 \$MPS GH2 PRESS LN VENT(LV52) OP P	OFF,	OFF,	OFF,	OFF,

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

IC ISM ADDR EXPANDED SOURCE STATEMENT VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

<V41X1505E1 \$MPS L02 INBD F/D VLV CL PWR (LV31)S> OFF, OFF, OFF,

<V41X1506E1 \$MPS L02 INBD F/D VLV OP PWR (LV30)S> OFF, OFF, OFF,

<V41X1507E1 \$MPS L02 OTBD F/D VLV CL PWR (LV29)S> OFF, OFF, OFF,

<V41X1508E1 \$MPS L02 OTBD F/D VLV OP PWR (LV28)S> OFF, OFF, OFF,

<V41X1538E1 \$MPS L02 MANF REPRSS 1(LV40) OP PWR3> OFF, OFF, OFF,

<V41X1539E1 \$MPS L02 MANF REPRSS 2(LV41) OP PWR3> OFF, OFF, OFF,

<V41X1549E1 \$MPS L02 F0LN RELF SOV CL PWR (LV24)S> OFF, OFF, OFF,

<V41X1614E1 \$MPS REG HE XOVER VLV (LV10) OP PWR3> OFF, OFF, OFF,

<V41X1645E1 \$MPS PNEU HE ISO VLV 1 (LV7) OP PWR3> OFF, OFF, OFF,

<V41X1646E1 \$MPS PNEU HE ISO VLV 2 (LV8) OP PWR3> OFF, OFF, OFF,

<V41X1661E1 \$MPS GH2 PRESS FCV 1 (LV56) CL PWR3> OFF, OFF, OFF,

<V41X1662E1 \$MPS GH2 PRESS FCV 2 (LV57) CL PWR3> OFF, OFF, OFF,

<V41X1663E1 \$MPS GH2 PRESS FCV 3 (LV58) CL PWR3> OFF, OFF, OFF,

<V76X0501E1 \$MPS=LH2 RELIEF SOV RPC A ON3> OFF, OFF, OFF,

<V76X0503E1 \$MPS=LH2 RELIEF SOV RPC C ON3> OFF, OFF, OFF,

<V76X0505E1 \$MPS=L02 RELIEF SOV RPC A ON3> OFF, OFF, OFF,

<V76X0507E1 \$MPS=L02 RELIEF SOV RPC C ON3> OFF, OFF, OFF,

<V76X3050E1 \$MPS PT SENSOR ELEC RPC B ON3> OFF, OFF, OFF,

<V76X3052E1 \$MPS PT SENSOR ELEC RPC C ON3> OFF, OFF, OFF,

<V76X4010E1 \$PCA=MPS L02 PREVLV 1-2 CL RPC A ON3> OFF, OFF, OFF,

<V76X4011E1 \$PCA=MPS L02 PREVLV 1-2 CL RPC B ON3> OFF, OFF, OFF,

<V76X4013E1 \$PCA=MPS L02 PREVLV 2-2 CL RPC B ON3> OFF, OFF, OFF,

<V76X4014E1 \$PCA=MPS L02 PREVLV 2-2 CL RPC C ON3> OFF, OFF, OFF,

<V76X4016E1 \$PCA=MPS L02 PREVLV 3-2 CL RPC A ON3> OFF, OFF, OFF,

<V76X4017E1 \$PCA=MPS L02 PREVLV 3-2 CL RPC C ON3> OFF, OFF, OFF,

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAE6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

<V76X4040E1	\$PCA-MPS L02 PREVLV 1-2 OP RPC A ON\$>	OFF,	OFF,
<V76X4041E1	\$PCA-MPS L0? PREVLV 1-2 OP RPC B ON\$>	OFF,	OFF,
<V76X4043E1	\$PCA-MPS L02 PREVLV 2-2 OP RPC B ON\$>	OFF,	OFF,
<V76X4044E1	\$PCA-MPS L02 PREVLV 2-2 OP RPC C ON\$>	OFF,	OFF,
<V76X4046E1	\$PCA-MPS L02 PREVLV 3-2 OP RPC A ON\$>	OFF,	OFF,
<V76X4047E1	\$PCA-MPS L02 PREVLV 3-2 OP RPC C ON\$>	OFF,	OFF,
<V76X4110E1	\$PCA-MPS LH? PREVLV 1 OP RPC A ON\$>	OFF,	OFF,
<V76X4111E1	\$PCA-MPS LH2 PREVLV 1 OP RPC B ON\$>	OFF,	OFF,
<V76X4113E1	\$PCA-MPS LH? PREVLV 1 CL RPC A ON\$>	OFF,	OFF,
<V76X4114E1	\$PCA-MPS LH2 PREVLV 1 CL RPC B ON\$>	OFF,	OFF,
<V76X4116E1	\$PCA-MPS LH2 PREVLV 2 OP RPC B ON\$>	OFF,	OFF,
<V76X4117E1	\$PCA-MPS LH2 PREVLV 2 OP RPC C ON\$>	OFF,	OFF,
<V76X4119E1	\$PCA-MPS LH2 PREVLV 2 CL RPC B ON\$>	OFF,	OFF,
<V76X4120E1	\$PCA-MPS LH2 PREVLV 2 CL RPC C ON\$>	OFF,	OFF,
<V76X4122E1	\$PCA-MPS LH2 PREVLV 3 OP RPC C ON\$>	OFF,	OFF,
<V76X4123E1	\$PCA-MPS LH2 PREVLV 3 OP RPC A ON\$>	OFF,	OFF,
<V76X4125E1	\$PCA-MPS LH2 PREVLV 3 CL RPC C ON\$>	OFF,	OFF,
<V76X4126E1	\$PCA-MPS LH2 PREVLV 3 CL RPC A ON\$>	OFF,	OFF,
<V76X4130E1	\$PCA-MPS LOX PREVLV 1 OP RPC A ON\$>	OFF,	OFF,
<V76X4131E1	\$PCA-MPS LOX PREVLV 1 OP RPC B ON\$>	OFF,	OFF,
<V76X4133E1	\$PCA-MPS LOX PREVLV 1 CL RPC A ON\$>	OFF,	OFF,
<V76X4134E1	\$PCA-MPS LOX PREVLV 1 CL RPC B ON\$>	OFF,	OFF,
<V76X4136E1	\$PCA-MPS LOX PREVLV 2 OP RPC B ON\$>	OFF,	OFF,
<V76X4137E1	\$PCA-MPS LOX PREVLV 2 OP RPC C ON\$>	OFF,	OFF,
<V76X4139E1	\$PCA-MPS LOX PREVLV 2 CL RPC B ON\$>	OFF,	OFF,
<V76X4140E1	\$PCA-MPS LOX PREVLV 2 CL RPC C ON\$>	OFF,	OFF,

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

<V76X4142E1 \$PCA-MPS LOX-PREVLV 3 OP-RPC C ONS> OFF OFF

<V76X4143E1 \$PCA-MPS LOX-PREVLV 3 OP-RPC A ONS> OFF OFF

<V76X4145E1 \$PCA-MPS LOX-PREVLV 3 CL-RPC C ONS> OFF OFF

<V76X4146E1 \$PCA-MPS LOX-PREVLV 3 CL-RPC A ONS> OFF OFF

<V76X4151E1 \$PCA-MPS E1 HE-INTCN IN/OP-RPC A ONS> OFF OFF

<V76X4152E1 \$PCA-MPS E1 HE-INTCN IN/OP-RPC B ONS> OFF OFF

<V76X4155E1 \$PCA-MPS E2 HE-INTCN IN/OP-RPC B ONS> OFF OFF

<V76X4156E1 \$PCA-MPS E2 HE-INTCN IN/OP-RPC C ONS> OFF OFF

10 DECLARE STATE TABLE (VALVE2)

WITH 8 ROWS AND 2 COLUMNS

TITLED

(EXPECTED), (NOPOWER)

WITH ENTRIES

<V76X4158E1 \$PCA-MPS E3 HE-INTCN IN/OP-RPC C ONS> OFF OFF

<V76X4159E1 \$PCA-MPS E3 HE-INTCN IN/OP-RPC A ONS> OFF OFF

<V76X4171E1 \$PCA-MPS ENG 1 HE-VALV B RPC B ONS> OFF OFF

<V76X4172E1 \$PCA-MPS ENG 1 HE-VALV B RPC C ONS> OFF OFF

<V76X4173E1 \$PCA-MPS ENG 2 HE-VALV B RPC A ONS> OFF OFF

<V76X4174E1 \$PCA-MPS ENG 2 HE-VALV B RPC C ONS> OFF OFF

<V76X4175E1 \$PCA-MPS ENG 3 HE-VALV B RPC A ONS> OFF OFF

<V76X4176E1 \$PCA-MPS ENG 3 HE-VALV B RPC B ONS> OFF OFF

SEND OF INSERT 15

11 DECLARE QUANTITY TABLE (ULLAGE)

WITH 6 ROWS AND 2 COLUMNS

TITLED

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAE6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

(LOW) (HIGH)

WITH ENTRIES

- <I41P1750C1 \$EI-L02 ULLAGE PRESSURE NO 1\$> 30.0 PSIG 30.0 PSIG
- <I41P1700C1 \$EI-LH2 ULLAGE PRESS NO 1\$> 30.0 PSIA 50.0 PSIA
- <I41P1751C1 \$EI-L02 ULLAGE PRESSURE NO 2\$> 30.0 PSIG 30.0 PSIG
- <I41P1701C1 \$EI-LH2 ULLAGE PRESS NO 2\$> 30.0 PSIA 50.0 PSIA
- <I41P1752C1 \$EI-L02 ULLAGE PRESSURE NO 3\$> 30.0 PSIG 30.0 PSIG
- <I41P1702C1 \$EI-LH2 ULLAGE PRESS NO 3\$> 30.0 PSIA 50.0 PSIA

\$ SPECIFY PRESSURE INTERRUPTS. \$

12 SPECIFY INTERRUPT <V41P1605A1 \$MPS PNEU VLV5 REG HE OUTLET PRESS\$> AND ON OCCURRENCE GOTO STEP 1600;

13 SPECIFY INTERRUPT <V41P1650A1 \$MPS PNEU ACCUMULATOR PRESSURE\$> AND ON OCCURRENCE GOTO STEP 1610;

\$ SPECIFY INTERRUPTS FOR CURSOR POSITIONS ON PAGE. \$

14 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 7 COLUMN 2 AND ON OCCURRENCE GOTO STEP 2010;

15 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 8 COLUMN 2 AND ON OCCURRENCE GOTO STEP 2020;

16 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 9 COLUMN 2 AND ON OCCURRENCE GOTO STEP 2030;

17 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 10 COLUMN 2 AND ON OCCURRENCE GOTO STEP 2040;

18 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 11 COLUMN 2 AND ON OCCURRENCE GOTO STEP 2050;

19 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 12 COLUMN 2 AND ON OCCURRENCE GOTO STEP 2060;

20 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 13 COLUMN 2 AND ON OCCURRENCE GOTO STEP 2070;

21 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 14 COLUMN 2 AND ON OCCURRENCE GOTO STEP 2080;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

22 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 15 COLUMN 2 AND  
ON OCCURRENCE GOTO STEP 2099J

23 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 16 COLUMN 2 AND  
ON OCCURRENCE GOTO STEP 2100J

24 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 17 COLUMN 2 AND  
ON OCCURRENCE GOTO STEP 2119J

25 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 18 COLUMN 2 AND  
ON OCCURRENCE GOTO STEP 2120J

26 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 19 COLUMN 2 AND  
ON OCCURRENCE GOTO STEP 2139J

27 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 20 COLUMN 2 AND  
ON OCCURRENCE GOTO STEP 2140J

28 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 21 COLUMN 2 AND  
ON OCCURRENCE GOTO STEP 2159J

29 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 22 COLUMN 2 AND  
ON OCCURRENCE GOTO STEP 2160J

30 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 23 COLUMN 2 AND  
ON OCCURRENCE GOTO STEP 2179J

31 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 24 COLUMN 2 AND  
ON OCCURRENCE GOTO STEP 2180J

32 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 25 COLUMN 2 AND  
ON OCCURRENCE GOTO STEP 2199J

33 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 26 COLUMN 2 AND  
ON OCCURRENCE GOTO STEP 2200J

34 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 7 COLUMN 17 AND  
ON OCCURRENCE GOTO STEP 2210J

35 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 8 COLUMN 17 AND  
ON OCCURRENCE GOTO STEP 2220J

36 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 9 COLUMN 17 AND  
ON OCCURRENCE GOTO STEP 2250J

37 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 10 COLUMN 17 AND  
ON OCCURRENCE GOTO STEP 2240J

38 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> LINE 11 COLUMN 17 AND  
ON OCCURRENCE GOTO STEP 2259J

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
39 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> LINE 12 COLUMN 17 AND  
ON OCCURRENCE GOTO STEP 2260;

40 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> LINE 13 COLUMN 17 AND  
ON OCCURRENCE GOTO STEP 2270;

41 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> LINE 14 COLUMN 17 AND  
ON OCCURRENCE GOTO STEP 2280;

42 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> LINE 15 COLUMN 17 AND  
ON OCCURRENCE GOTO STEP 2290;

43 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> LINE 16 COLUMN 17 AND  
ON OCCURRENCE GOTO STEP 2300;

44 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> LINE 17 COLUMN 17 AND  
ON OCCURRENCE GOTO STEP 2310;

45 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> LINE 18 COLUMN 17 AND  
ON OCCURRENCE GOTO STEP 2320;

46 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> LINE 19 COLUMN 17 AND  
ON OCCURRENCE GOTO STEP 2330;

47 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> LINE 20 COLUMN 17 AND  
ON OCCURRENCE GOTO STEP 2340;

48 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> LINE 21 COLUMN 17 AND  
ON OCCURRENCE GOTO STEP 2350;

49 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> LINE 22 COLUMN 17 AND  
ON OCCURRENCE GOTO STEP 2360;

50 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> LINE 28 COLUMN 2 AND  
ON OCCURRENCE GOTO STEP 2370;

51 SPECIFY INTERRUPT <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> LINE 32 COLUMN 2 AND  
ON OCCURRENCE GOTO STEP 9999;

\$ SPECIFY PFP AND PFK INTERRUPTS (SEE ABOVE FOR KEY EXPLANATION). \$

52 SPECIFY INTERRUPT <PFPK1 \$PFP KEY 1 DEFAULTS> AND ON OCCURRENCE  
GOTO STEP 1620;

53 SPECIFY INTERRUPT <PFPK2 \$PFP KEY 2 DEFAULTS> AND ON OCCURRENCE  
GOTO STEP 1630;

54 SPECIFY INTERRUPT <PFPK4 \$PFP KEY 4 DEFAULTS> AND ON OCCURRENCE  
GOTO STEP 1650;

55 SPECIFY INTERRUPT <PFPK5 \$PFP KEY 5 DEFAULTS> ON OCCURRENCE



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT  
VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISH-ADDR EXPANDED SOURCE STATEMENT  
GOTO STEP 1640;

56 SPECIFY INTERRUPT <PFPK6 \$PFP KEY 6 DEFAULTS> AND ON OCCURRENCE  
GOTO STEP 9999;

57 SPECIFY INTERRUPT <PFK1-PA \$PROG. FUNCTION KEY 1 PAGE-A DEFLT\$> AND ON OCCURRENCE  
GOTO STEP 1665;

58 SPECIFY INTERRUPT <PFK2-PA \$PROG. FUNCTION KEY 2 PAGE-A DEFLT\$> AND ON OCCURRENCE  
GOTO STEP 1668;

59 SPECIFY INTERRUPT <PFK3-PA \$PROG. FUNCTION KEY 3 PAGE-A DEFLT\$> AND ON OCCURRENCE  
GOTO STEP 1670;

60 SPECIFY INTERRUPT <PFK4-PA \$PROG. FUNCTION KEY 4 PAGE-A DEFLT\$> AND ON OCCURRENCE  
GOTO STEP 1680;

61 SPECIFY INTERRUPT <PFK5-PA \$PROG. FUNCTION KEY 5 PAGE-A DEFLT\$> AND ON OCCURRENCE  
GOTO STEP 1690;

62 SPECIFY INTERRUPT <PFK6-PA \$PROG. FUNCTION KEY 6 PAGE-A DEFLT\$> AND ON OCCURRENCE  
GOTO STEP 1700;

63 SPECIFY INTERRUPT <PFK11-P8 \$PROG. FUNCTION KEY 11 PAGE-B DEFLT\$> AND ON OCCURRENCE  
GOTO STEP 1660;

64 SPECIFY INTERRUPT <PFK15-P3 \$PROG. FUNCTION KEY 15 PAGE-B DEFLT\$> AND ON OCCURRENCE  
GOTO STEP 9999;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

~~\$\$\$BEGIN OPERATING STEPS~~

65 002B \*\*\*\*\*BEGIN OPERATING STEPS \*\*\*\*\*  
ACTIVATE PROCEDURE ERROR OVERRIDE;

\$ CLEAR EVERYTHING. \$

66 002E CLEAR <PAGE-A \$DISPLAY APPLICATION PAGE AS> <PAGE-B \$DISPLAY APPLICATION PAGE BS>;

67 0033 CLEAR <LED1 \$LED 1 DEFAULTS> <LED2 \$LED 2 DEFAULTS> <LED3 \$LED 3 DEFAULTS> <LED4 \$LED 4  
DEFAULTS> <LED5 \$LED 5 DEFAULTS> <LED6 \$LED 6 DEFAULTS>;

~~68 0036 TURN OFF <PFPK1-L1 \$PFP KEY 1 LIGHT 1 DEFAULTS> <PFPK1-L2 \$PFP KEY 1 LIGHT 2 DEFAULTS>  
<PFPK2-L1 \$PFP KEY 2 LIGHT 1 DEFAULTS> <PFPK2-L2 \$PFP KEY 2 LIGHT 2 DEFAULTS>  
<PFPK3-L1 \$PFP KEY 3 LIGHT 1 DEFAULTS> <PFPK3-L2 \$PFP KEY 3 LIGHT 2 DEFAULTS>  
<PFPK4-L1 \$PFP KEY 4 LIGHT 1 DEFAULTS> <PFPK4-L2 \$PFP KEY 4 LIGHT 2 DEFAULTS>  
<PFPK5-L1 \$PFP KEY 5 LIGHT 1 DEFAULTS> <PFPK5-L2 \$PFP KEY 5 LIGHT 2 DEFAULTS>  
<PFPK6-L1 \$PFP KEY 6 LIGHT 1 DEFAULTS> <PFPK6-L2 \$PFP KEY 6 LIGHT 2 DEFAULTS>~~

69 004F INHIBIT FEP INTERRUPT CHECK FOR <V41P1605A1 \$MPS PNEU VLVS REG HE OUTLET PRESS\$>;

70 0057 INHIBIT FEP INTERRUPT CHECK, EXCEPTION MONITORING,  
CONTROL LOGIC NOTIFICATION FOR <V41P1650A1 \$MPS PNEU ACCUMULATOR PRESSURES>;

71 005F CHANGE <V41P1605A1 \$MPS PNEU VLVS REG HE OUTLET PRESS\$> GOAL EXCEPTION  
CONDITION HIGH LIMIT TO 25 PSIA LOW LIMIT TO LO;

72 006E CHANGE <V41P1650A1 \$MPS PNEU ACCUMULATOR PRESSURES> SYSTEM AND GOAL EXCEPTION  
CONDITION HIGH LIMIT TO 25 PSIA LOW LIMIT TO LO;

\$ NOTE: DO NOT ACTIVATE CONTROL LOGIC NOTIFICATION. \$

73 008C ACTIVATE FEP INTERRUPT CHECK FOR <V41P1605A1 \$MPS PNEU VLVS REG HE OUTLET PRESS\$>;

74 0094 ACTIVATE FEP INTERRUPT CHECK, EXCEPTION MONITORING  
FOR <V41P1650A1 \$MPS PNEU ACCUMULATOR PRESSURES>;

75 009C RECORD TEXT ( ) TO <PAGE-A \$DISPLAY APPLICATION PAGE AS>;  
76 00A6 RECORD TEXT ( ) TO <PAGE-A \$DISPLAY APPLICATION PAGE AS>;

77 00B0 RECORD TEXT (HE REG OUT AND ACCUM NOW ON EMON PAGE),  
TEXT ( AND UNDER CONTINUOUS PROGRAM),  
TEXT ( MONITORING) TO

<PAGE-A \$DISPLAY APPLICATION PAGE AS>;

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC ISN ADDR EXPANDED SOURCE STATEMENT

78 00E2 PERFORM PROGRAM (VAE92) 31

79 00F2 RECORD TEXT ( )

NEXT TEXT

(TO INHIBIT EMONS ON FUNCTION DESIGNATORS WITH C3 RSYS ENTER)

NEXT TEXT

(VAE94) ON THE COMMAND LINE AT CONSOLE C3 AND PRESS <PERF PGM>

NEXT TEXT

( )

NEXT TEXT

(WHEN COMPLETE PRESS CONTINUE - PFK1) TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$>

80 0152 PERFORM SUBROUTINE (PFPKON) 11

81 0166 STEP 0500 CONTINUE

82 0169

83 016E IF (I660) 0 THEN GO TO STEP 0500

\$ ASK OPERATORS WHAT TYPE OF TEST THEY ARE RUNNING \$

84 0176 RECORD TEXT ( )

NEXT TEXT (PLEASE INDICATE WHICH YOU WISH TO RUN)

TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> YELLOW

85 0199 RECORD TEXT

(PFK1: RSYS TRANSFER OF <V4TK155XL> AND <V4TK1557XL> TO C4)

TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> YELLOW

86 01C3 RECORD TEXT

(PFK2: RSYS TRANSFER OF <V4TK155XL> AND <V4TK1557XL> TO C5)

TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> YELLOW

87 01ED RECORD TEXT (PFK3: BUS REDUNDANCY TEST)

TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> YELLOW

88 0208 RECORD TEXT (PFK4: ELECTRICAL CONNECTOR RETEST)

TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> YELLOW

89 0226 DISPLAY SKELETON (VDE52) TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$>

\$ INHIBIT ALL KEYS EXCEPT FOR THE PFK3-PA AND PFK4-PA. \$

90 022B INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFK1 \$PFP KEY 1 DEFAULT\$> <PFK2 \$PFP KEY 2 DE

FAULT\$>

<PFK4 \$PFP KEY 4 DEFAULT\$> <PFK5 \$PFP KEY 5 DEFAULT\$> <PFK6 \$PFP KEY 6 DEFAULT\$> <PFK5-

PA \$PROG. FUNCTION KEY 5 PAGE-A DEFLT\$> <PFK6-PA \$PROG. FUNCTION KEY 6 PAGE-A DEFLT\$>

\$ INHIBIT ALL CURSOR POSITIONS \$

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC EXPANDED SOURCE STATEMENT

91 0241 PERFORM SUBROUTINE (INH CUR);

92 0246 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> ON

LINE 32

COLUMN 2;

93 0240 ~~INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFK11-PB \$PROG. FUNCTION KEY 11PAGE-B DEFLT\$>~~ <

~~PFK15-PB \$PROG. FUNCTION KEY 15PAGE-3 DEFLT\$>~~;

94 0256 ACTIVATE INTERRUPT PROCESSING ON THIS LEVEL;

95 0259 STEP 1160 CONTINUE;

96 025C PERFORM SUBROUTINE (UPDATE);

97 0261 IF (TEST IS CIG OR SCAN) IS LESS THAN 1 THEN GOTO STEP 1160;

98 026A ~~PFK6-PA \$PROG. FUNCTION KEY 6 PAGE-A DEFLT\$>~~;  
ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <PFK5-PA \$PROG. FUNCTION KEY 5 PAGE-A DEFLT\$> <

99 0273 RECORD TEXT ( ) TO <PAGE-A \$DISPLAY APPLICATION PAGE AS\$>

100 0270 RECORD TEXT  
(PLEASE INDICATE WHETHER OR NOT ANY HE ISOL SOLENOIDS ARE MATED:)  
TO <PAGE-A \$DISPLAY APPLICATION PAGE AS\$> YELLOW;

101 02AB RECORD TEXT (<PFK5: ANY OF THE MPS AND SSME HELIUM SOL ARE MATED>  
TO <PAGE-A \$DISPLAY APPLICATION PAGE AS\$> YELLOW;

102 02D1 RECORD TEXT (<PFK6: ALL OF THE MPS AND SSME HELIUM SOL ARE DEMATED>  
TO <PAGE-A \$DISPLAY APPLICATION PAGE AS\$> YELLOW;

103 02F8 STEP 1170 CONTINUE;

104 02FB PERFORM SUBROUTINE (UPDATE);

105 0301 IF (THE ISOS MATED) IS LESS THAN 1 THEN GOTO STEP 1170;

\$ BRING UP TERMINATE LEDS, AND REFRESH PAGE PFK. \$

106 030A PERFORM SUBROUTINE (PFFKON) 6;

107 031E ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <PFK11-PB \$PROG. FUNCTION KEY 11PAGE-B DEFLT\$>

108 0325 CLEAR <PAGE-A \$DISPLAY APPLICATION PAGE AS\$>

109 0329 RECORD TEXT ( ) TO <PAGE-A \$DISPLAY APPLICATION PAGE AS\$>

110 0333 RECORD TEXT ( ) TO <PAGE-A \$DISPLAY APPLICATION PAGE AS\$>

- VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

IC  
ISN ADDR EXPANDED SOURCE STATEMENT  
111 033D RECORD TEXT (SEE PAGE B FOR DISPLAY) TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> YELLOW;

IC  
ISN ADDR EXPANDED SOURCE STATEMENT  
111 033D RECORD TEXT (SEE PAGE B FOR DISPLAY) TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> YELLOW;  
\$ SINCE SUBROUTINE NEXT AND CLEAR PAGE IS USED SO OFTEN, LOCK IT INTO MEMORY. \$

112 0355 LOCK SUBROUTINE (NEXT) (CPAGE);

113 035A STEP 1020 CONTINUE;

\$ BRING UP TERMINATE PFK KEY. \$

114 035D ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <PFK15-PB \$PROG. FUNCTION KEY 15PAGE-B DEFLT\$>;

115 0364 PERFORM SUBROUTINE (PPFKON) 1;

\$ RESET ALL BUS, SWITCH AND VALVE INDICATORS TO OFF. \$

116 0378 PERFORM SUBROUTINE (INIT TAB);

\$ ACTIVATE ALL CURSOR POSITIONS \$

117 037D ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

LINE 7

COLUMN 2;

118 0385 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

LINE 8

COLUMN 2;

119 038C ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

LINE 9

COLUMN 2;

120 0393 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

LINE 10

COLUMN 2;

121 039A ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

LINE 11

COLUMN 2;

122 03A1 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

LINE 12

COLUMN 2;

123 03A8 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

~~IGN ADDR EXPANDED SOURCE STATEMENT~~  
LINE 13

COLUMN 2;

124 03AF ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 2;

125 03B6 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 2;

126 03BD ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 2;

127 03C4 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 2;

128 03CB ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 2;

129 03D2 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 2;

130 03D9 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 2;

131 03E0 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 2;

132 03E7 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 2;

133 03EE ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

~~COLUMN 21~~

~~134 03F5 LINE 24 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON~~

~~COLUMN 21~~

~~135 03FC LINE 25 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON~~

~~COLUMN 21~~

~~136 0404 LINE 26 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON~~

~~COLUMN 21~~

~~137 040B LINE 7 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON~~

~~COLUMN 17;~~

~~138 0412 LINE 8 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON~~

~~COLUMN 17;~~

~~139 0419 LINE 9 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON~~

~~COLUMN 17;~~

~~140 0420 LINE 10 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON~~

~~COLUMN 17;~~

~~141 0427 LINE 11 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON~~

~~COLUMN 17;~~

~~142 042E LINE 12 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON~~

~~COLUMN 17;~~

~~143 0435 LINE 13 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON~~

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT  
COLUMN 17;

144 043C LINE 14 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 17;

145 0443 LINE 15 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 17;

146 044A LINE 16 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 17;

147 0451 LINE 17 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 17;

148 0458 LINE 18 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 17;

149 045F LINE 19 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 17;

150 0466 LINE 20 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 17;

151 046D LINE 21 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 17;

152 0474 LINE 22 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 17;

153 047B LINE 28 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> ON

COLUMN 2;



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

154 0483 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <WHIT PD \$TRANSMIT CURSOR FUNCT KEY PAGE 05> ON

LINE 32

COLUMN 2;

\$ START IDLE UPDATE LOOP, IE THERE IS NO TEST CURRENTLY BEING RUN. WAIT FOR OPERATOR TO HIT SOME KEY. \$

155 048A ASSIGN (IDLE) = ON;

156 048F LET (ERRORCOL) = 0;

157 0494 CLEAR <LED4 \$LED4 - DEFAULTS>;

158 0498 TURN OFF <PFPK4-L1 \$PFP KEY 4 LIGHT 1 - DEFAULTS> <PFPK4-L2 \$PFP KEY 4 LIGHT 2 - DEFAULTS>;

159 04A1 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFPK4 \$PFP KEY 4 DEFAULTS>;

160 04A7 STEP 1030 CONTINUE;

161 04AA PERFORM SUBROUTINE (UPDATE);

162 04AF IF (ICGO) = 0 THEN GOTO STEP 1030;

\$ OPERATOR HIT THE CONTINUE PFK LED, SO WE NOW FIGURE OUT WHAT THE NEXT TEST IS. NOTE: THE OPERATOR COULD ALSO CURSOR A TEST, THEREBY GOING DIRECTLY TO THE STEP WHERE THE TEST IS LOCATED AND BYPASSING THE NEXT SET OF CODE. \$

\$ TESTB IS USED TO TELL IF THE OPERATOR HIT THE 'CONTINUE' AFTER TEST 40 IS COMPLETED. THIS IS NOT AN ALLOWABLE CONDITION. THE OPERATOR MUST CURSOR WHAT HE WANTS NEXT. SEQ IS SET TO 1 SO THAT THE FIRST SEQUENCE WILL BE RUN. \$

163 04B7 LET (TESTB) = 0;

164 04BC LET (SEQ) = 1;

\$ FIGURE OUT WHAT THE NEXT TEST SHOULD BE, AND GET SET UP FOR IT, IE SET TEST EQUAL TO THE TEST, AND GO TO THE SECTION THAT FIGURES OUT WHAT STEP THE TEST IS. \$

165 04C1 PERFORM STATEMENT GROUPS ON (TEST);

166 04C4 STATEMENT GROUP FOR (TEST) EQUAL TO (0)

LET (TEST) = 37;

167 04CC STATEMENT GROUP FOR (TEST) EQUAL TO (1 TO 35)

LET (TEST) = (TEST) + 1;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

168 0405 STATEMENT GROUP FOR (TEST) EQUAL TO (36)  
BEGIN SEQUENCE;

169 0407 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

170 040C RECORD TEXT (FURTHER TESTS UNAVAILABLE);

TO <PAGE=B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 YELLOW;

171 0508 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

172 0510 RECORD TEXT (CURSOR THE TEST YOU WISH TO PERFORM)

TO <PAGE=B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 YELLOW;

173 0530 LET (TESTB) = 1;

174 0542 END SEQUENCE;

175 0547 STATEMENT GROUP FOR (TEST) EQUAL TO (37)

LET (TEST) = 1;

176 054F END STATEMENT GROUPS FOR (TEST);

177 0567 IF (TESTB) = 1 THEN GOTO STEP 1020;

178 056F GOTO STEP 1010;

179 0572 STEP 1000 CONTINUE;

180 0575 ASSIGN (IDLE) = OFF;

\$ START RUNNING THE TEST. \$

181 057A LET (ERROR EPDC) = 0;

182 057F PERFORM SUBROUTINE (PFPKON) 4;

183 0594 CLEAR <LED1 \$LED1 \$DEFAULT\$>;

184 0598 TURN OFF <PPPK1-L1 \$PFP KEY 1 LIGHT 1 DEFAULT\$> <PPPK1-L2 \$PFP KEY 1 LIGHT 2 DEFAULT\$>

;

185 05A1 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PPPK1 \$PFP KEY 1 DEFAULT\$>;

186 05A7 IF (TERMPGM) = 0 THEN

PERFORM SUBROUTINE (INVERT) 4;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

187 05E0 \$ CLEAR THE RIGHT SIDE OF THE SKELETON ON PAGE-B. \$

PERFORM SUBROUTINE (CPAGE);

\$ INHIBIT ALL CURSOR POSITIONS \$

188 05E5 PERFORM SUBROUTINE (INH CUR);

\$ START CHECKING THE SWITCHES, FIRST TIME THRU GIVES ME 150 RELIEF ERRORS.  
SECOND TIME THRU, FIRST ITERATION SAYS WHAT POSITION TO PUT THEM  
IN, SECOND TIME THRU CHECKS TO MAKE SURE THAT THEY ARE IN THE CORRECT  
POSITION, OTHERWISE IT PRINTS OUT AN ERROR. \$

189 05CA LET (STEP) = 1;

190 05CF STEP 1145 CONTINUE;

191 05D2 CLEAR <PAGE-A \$DISPLAY APPLICATION PAGE AS>;

\$ CLEAR THE RIGHT SIDE OF THE SKELETON ON PAGE-B. \$

192 05D6 PERFORM SUBROUTINE (CPAGE);

193 05DB IF (STEP) = 2 AND (SEQ) = 1 THEN

BEGIN SEQUENCE;

\$ WRITE OUT WHAT TEST WE ARE STARTING. \$

194 05E5 IF (TEST) = 1 THEN

ASSIGN (TESTNAME) = TEXT (AB1);

195 05F2 IF (TEST) = 2 THEN

ASSIGN (TESTNAME) = TEXT (AB1/AB2);

196 0602 IF (TEST) = 3 THEN

ASSIGN (TESTNAME) = TEXT (AB1/AB2/AB3);

197 0613 IF (TEST) = 4 THEN

ASSIGN (TESTNAME) = TEXT (AB2);

198 0620 IF (TEST) = 5 THEN

ASSIGN (TESTNAME) = TEXT (AB2/AB3);

199 062F IF (TEST) = 6 THEN

ASSIGN (TESTNAME) = TEXT (AB3);

200 063C IF (TEST) = 7 THEN

ASSIGN (TESTNAME) = TEXT (BC1);

VAEA6 - V1161/CIG/SCAN RUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT  
201 0649 IF (TEST) = 8 THEN  
ASSIGN (TESTNAME) = TEXT (BC1/BC2/BC3);

202 0658 IF (TEST) = 9 THEN  
ASSIGN (TESTNAME) = TEXT (BC1/BC2/BC3);

203 0669 IF (TEST) = 10 THEN  
ASSIGN (TESTNAME) = TEXT (BC2/BC3);

204 0676 IF (TEST) = 11 THEN  
ASSIGN (TESTNAME) = TEXT (BC2/BC3);

205 0686 IF (TEST) = 12 THEN  
ASSIGN (TESTNAME) = TEXT (BC3);

206 0693 IF (TEST) = 13 THEN  
ASSIGN (TESTNAME) = TEXT (CA1);

207 06A0 IF (TEST) = 14 THEN  
ASSIGN (TESTNAME) = TEXT (CA1/CA2);

208 06AF IF (TEST) = 15 THEN  
ASSIGN (TESTNAME) = TEXT (CA1/CA2/CA3);

209 06C0 IF (TEST) = 16 THEN  
ASSIGN (TESTNAME) = TEXT (CA2);

210 06CD IF (TEST) = 17 THEN  
ASSIGN (TESTNAME) = TEXT (CA2/CA3);

211 06DC IF (TEST) = 18 THEN  
ASSIGN (TESTNAME) = TEXT (CA3);

212 06E9 IF (TEST) = 19 THEN  
ASSIGN (TESTNAME) = TEXT (CA3/CA1);

213 06F8 IF (TEST) = 20 THEN  
ASSIGN (TESTNAME) = TEXT (BC1/AB1/CA1);

214 070A IF (TEST) = 21 THEN  
ASSIGN (TESTNAME) = TEXT (BC2/CA1);

215 0719 IF (TEST) = 22 THEN  
ASSIGN (TESTNAME) = TEXT (AB3/AB1);

216 0728 IF (TEST) = 23 THEN  
ASSIGN (TESTNAME) = TEXT (CA2/AB1);

217 0737 IF (TEST) = 24 THEN  
ASSIGN (TESTNAME) = TEXT (BC3/BC1);

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

218 0746

IF (TEST) = 25 THEN

ASSIGN (TESTNAME) = TEXT (A02/B01);

219 0755

IF (TEST) = 26 THEN

ASSIGN (TESTNAME) = TEXT (CA3/AB1);

220 0764

IF (TEST) = 27 THEN

ASSIGN (TESTNAME) = TEXT (061/A03);

221 0773

IF (TEST) = 28 THEN

ASSIGN (TESTNAME) = TEXT (AB2/AB3/BC1);

222 0785

IF (TEST) = 29 THEN

ASSIGN (TESTNAME) = TEXT (A03/B01/AB1);

223 0796

IF (TEST) = 30 THEN

ASSIGN (TESTNAME) = TEXT (BC3/CA1);

224 07A5

IF (TEST) = 31 THEN

ASSIGN (TESTNAME) = TEXT (062/B03/CA1);

225 07B6

IF (TEST) = 32 THEN

ASSIGN (TESTNAME) = TEXT (BC1/BC3/CA1);

226 07C7

IF (TEST) = 33 THEN

ASSIGN (TESTNAME) = TEXT (CA1/CA3/AB1);

227 07D8

IF (TEST) = 34 THEN

ASSIGN (TESTNAME) = TEXT (AB1/CA2/CA3);

228 07E9

IF (TEST) = 35 THEN

ASSIGN (TESTNAME) = TEXT (AB3/BC2);

229 07F8

IF (TEST) = 36 THEN

ASSIGN (TESTNAME) = TEXT (AB3/CA1);

230 0808

IF (TEST) = 37 THEN

ASSIGN (TESTNAME) = TEXT (INITIAL SET UP);

231 081A

RECORD TEXT (VAEA6), <GMT \$GREENWICH MEAN TIME\$> FORMAT (NO FD DESCRIPTOR);

TEXT (TEST STARTED), (TESTNAME), TEXT ( DOWN)

TO <CNCL=PP \$CONSOLE PRINTER PLOTTERS\$> <SPA=PRNTR \$SPA PRINTERS\$>;

232 0850

END SEQUENCE;

233 0852

REPEAT SEQUENCE VARYING (IMPP2) FROM 1 TO (STEP);

234 0858

BEGIN SEQUENCE;

5 WARN OPERATOR IF MORE THAN 3 BUSES ARE EXPECTED TO DROP 3

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
235 085A LET (COUNT2) = 0;

\$ CLEAR THE RIGHT SIDE OF THE SKELETON ON PAGE-B. \$

236 085F PERFORM SUBROUTINE (CPAGE);

237 0864 REPEAT SEQUENCE VARYING (ECOUNT) FROM 1 TO 9;

238 086A BEGIN SEQUENCE;

239 086C IF (EPDC BUS) ROW (ECOUNT) (LOW) IS LESS THAN 23 V THEN

LET (COUNT2) = (ECOUNT2) + 1;

240 087B END SEQUENCE;

241 0884 IF (COUNT2) IS GREATER THAN 3 AND (TMPP2) = 1  
AND (STEP) = 2 THEN

BEGIN SEQUENCE;

242 0896 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

243 08A8 PERFORM STATEMENT GROUPS ON (TEST);

244 08AE STATEMENT GROUP FOR (TEST) EQUAL TO (29)

RECORD TEXT (EPDC BUSES AB1/BC1/CA1/AB3 WILL)  
TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 YELLOW;

245 08CF STATEMENT GROUP FOR (TEST) EQUAL TO (32)

RECORD TEXT (EPDC BUSES AB1/BC1/CA1/BC3 WILL)  
TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 YELLOW;

246 08FD STATEMENT GROUP FOR (TEST) EQUAL TO (33)

RECORD TEXT (EPDC BUSES AB1/BC1/CA1/CA3 WILL)  
TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 YELLOW;

247 0912 STATEMENT GROUP FOR (TEST) EQUAL TO OTHER VALUES

RECORD (COUNT2) TEXT ( EPDC BUSES WILL)  
TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 YELLOW;

248 092F END STATEMENT GROUPS FOR (TEST);

249 0943 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

250 0958 RECORD TEXT (DROP IN THIS TEST)  
TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 YELLOW;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISM ADDR EXPANDED SOURCE STATEMENT

251 006F LET (NUMLINES) = (NUMLINES) + 2;

252 0075 END SEQUENCE;

\$ CHECK TO MAKE SURE THAT EPDC BUSES ARE IN THE CORRECT CONFIGURATION. \$

253 0077 LET (ERROR EPDC) = 0;

254 007C VERIFY (EPDC BUS) FUNCTIONS ARE BETWEEN (LOW) AND (HIGH)

ELSE RECORD EXCEPTIONS

TEXT (VAEA6 - THE FOLLOWING EPDC BUSES ARE OUT OF CONFIGURATION)

TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> <CNLSL-PP \$CONSOLE PRINTER PLOTTERS> <SPA-PRNTR

\$SPA PRINTER\$> AND LET (ERROR EPDC) = 1;

255 0A07 IF (ERROR EPDC) = 1 THEN

BEGIN SEQUENCE;

\$ OUTPUT ACTUAL BUS THAT IS OUT. \$

256 0A0E VERIFY (EPDC BUS) FUNCTIONS ARE BETWEEN (LOW) AND (HIGH)

ELSE RECORD EXCEPTIONS TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> <CNLSL-PP \$CONSOLE PRINT

R PLOTTERS> <SPA-PRNTR \$SPA PRINTER\$>

AND LET (ERROR EPDC) = 1;

257 0C5A PERFORM SUBROUTINE (NEXT) (NEXTLINE);

258 0C6F RECORD TEXT (ERROR IN EPDC BUS SCAN. PLEASE SEE)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 YELLOW;

259 0C90 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

260 0CA5 RECORD TEXT (PAGE-A FOR ERRORS THEN)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 YELLOW;

261 0CBE PERFORM SUBROUTINE (NEXT) (NEXTLINE);

262 0CD3 RECORD TEXT (PRESS VERIFY AGAIN - PFK2-OR)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 YELLOW;

263 0CF0 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

264 0D06 RECORD TEXT (ERRORS-CONTINUE - PFK5 TO CONTINUE.)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 YELLOW;

265 0D26 LET (NUMLINES) = (NUMLINES) + 4;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
266 0D2C LET (AGAIN) = 0;

267 0D31 PERFORM SUBROUTINE (PFKON) 2;

268 0D45 PERFORM SUBROUTINE (PFKON) 5;

\$ WAIT FOR THE OPERATOR TO VERIFY AGAIN, OR GO AHEAD. \$

269 0D59 STEP 1140 CONTINUE;

270 0D5C PERFORM SUBROUTINE (UPDATE);

271 0D61 IF (ICG0) = 0 THEN GOTO STEP 1140;

272 0D6A IF (AGAIN) = 1 THEN

GOTO STEP 1000;

\$ CONTINUE PAST EPDC ERRORS. \$

273 0D73 LET (ERRORCOL) = 1;

\$ CLEAR THE RIGHT SIDE OF THE SKELETON ON PAGE-B. \$

274 0D78 PERFORM SUBROUTINE (CPAGE);

275 0D7D END SEQUENCE;

276 0D7F LET (HE ISO RELIEF) = 0;

277 0D85 LET (NG1) = 0;

278 0D8A LET (NG2) = 0;

279 0D8F LET (DUMP1) = 0;

280 0D94 LET (DUMP2) = 0;

281 0D99 LET (ERROR) = 0;

282 0D9E LET (LASTPOS) = 0;

283 0DA3 LET (NUMLINES) = 0;

\$ READ SWITCHES TO CHECK FOR CONFIGURATION CHANGES. \$

284 0DA8 IF (TEST) IS NOT EQUAL TO 6 OR

(TEST) IS NOT EQUAL TO 10 OR

(TEST) IS NOT EQUAL TO 13 OR

(TEST) IS NOT EQUAL TO 21 OR

(TEST) IS NOT EQUAL TO 29 OR



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT  
(TEST) IS NOT EQUAL TO 36.

BEGIN SEQUENCE:

285 0DCA INHIBIT (SWITCH) ROW 53;  
286 0DCF INHIBIT (SWITCH) ROW 54;  
287 0DD4 INHIBIT (SWITCH) ROW 55;  
288 0DD9 INHIBIT (SWITCH) ROW 56;  
289 0DDE INHIBIT (SWITCH) ROW 57;  
290 0DE3 INHIBIT (SWITCH) ROW 58;  
291 0DE8 INHIBIT (SWITCH) ROW 59;  
292 0DED INHIBIT (SWITCH) ROW 60;

293 0DF2 ASSIGN (SWITCH) ROW 53 (EXPECTED) =  
(SWITCH) ROW 53 (ACTUAL);  
294 0DF7 ASSIGN (SWITCH) ROW 54 (EXPECTED) =  
(SWITCH) ROW 54 (ACTUAL);  
295 0DFC ASSIGN (SWITCH) ROW 55 (EXPECTED) =  
(SWITCH) ROW 55 (ACTUAL);  
296 0E02 ASSIGN (SWITCH) ROW 56 (EXPECTED) =  
(SWITCH) ROW 56 (ACTUAL);  
297 0E07 ASSIGN (SWITCH) ROW 57 (EXPECTED) =  
(SWITCH) ROW 57 (ACTUAL);  
298 0E0C ASSIGN (SWITCH) ROW 58 (EXPECTED) =  
(SWITCH) ROW 58 (ACTUAL);  
299 0E11 ASSIGN (SWITCH) ROW 59 (EXPECTED) =  
(SWITCH) ROW 59 (ACTUAL);  
300 0E16 ASSIGN (SWITCH) ROW 60 (EXPECTED) =  
(SWITCH) ROW 60 (ACTUAL);

301 0E1B END SEQUENCE;

302 0E1D READ (SWITCH) FUNCTIONS AND SAVE AS (SWITCH) (ACTUAL);

\$ SET SECOND POSITION OF LH2 ULLAGE TO ALWAYS OFF. ALLOWS PROGRAM TO  
TREAT SWITCHES UNFORMALLY SINCE LH2 ULLAGE HAS NO CLOSED POSITION.\$

303 0EBC ASSIGN (SWITCH) ROW 50 (EXPECTED) = OFF;  
304 0EC1 ASSIGN (SWITCH) ROW 50 (ACTUAL) = OFF;

\$KEEP ALL HELIUM IN ORIGINAL POSITION IF RUNNING  
A CIG/SCAN RETEST.\$

305 0EC6 IF (TEST IS CIG OR SCAN) = 2 THEN

BEGIN SEQUENCE;

306 0ECD ASSIGN (SWITCH) ROW 1 (EXPECTED) = (SWITCH) ROW 1 (ACTUAL);  
307 0ED2 ASSIGN (SWITCH) ROW 2 (EXPECTED) = (SWITCH) ROW 2 (ACTUAL);  
308 0ED7 ASSIGN (SWITCH) ROW 3 (EXPECTED) = (SWITCH) ROW 3 (ACTUAL);  
309 0EDC ASSIGN (SWITCH) ROW 4 (EXPECTED) = (SWITCH) ROW 4 (ACTUAL);

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

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IC
IGN ADDR EXPANDED SOURCE STATEMENT
310 0EE1 ASSIGN (SWITCH) ROW 5 (EXPECTED) = (SWITCH) ROW 5 (ACTUAL) ;
311 0EE6 ASSIGN (SWITCH) ROW 6 (EXPECTED) = (SWITCH) ROW 6 (ACTUAL) ;
312 0EEB ASSIGN (SWITCH) ROW 7 (EXPECTED) = (SWITCH) ROW 7 (ACTUAL) ;
313 0EF0 ASSIGN (SWITCH) ROW 8 (EXPECTED) = (SWITCH) ROW 8 (ACTUAL) ;
314 0EF5 ASSIGN (SWITCH) ROW 9 (EXPECTED) = (SWITCH) ROW 9 (ACTUAL) ;
315 0EFA ASSIGN (SWITCH) ROW 10 (EXPECTED) = (SWITCH) ROW 10 (ACTUAL) ;
316 0EFF ASSIGN (SWITCH) ROW 11 (EXPECTED) = (SWITCH) ROW 11 (ACTUAL) ;
317 0F05 ASSIGN (SWITCH) ROW 12 (EXPECTED) = (SWITCH) ROW 12 (ACTUAL) ;

```

318 0F0A END SEQUENCE;

319 0F0C REPEAT SEQUENCE VARYING (TMP) FROM 1 TO 60 BY 2;

320 0F12 BEGIN SEQUENCE;

321 0F14 LET (TMP1) = (TMP) + 1;

```

$ IF THAT SWITCH HAS NO POWER, IF ALL BUSES TO IT ARE DROPPED, THEN THE
SWITCH WILL SHOW GPC ALWAYS, AND PROGRAM CAN'T TELL WHAT POSITION IT IS
IN, BUT SWITCH WILL HAS TO BE VERIFIED, SO ASK OPERATOR TO POSITION
IF IT IS THE FIRST TIME THROUGH THE SWITCH CHECK. $

```

```

322 0F1A IF (SWITCH) ROW (TMP) (NOPOWER) IS ON AND
(TMP2) = 1 THEN GOTO STEP 1150;

```

```

$ IF THAT SWITCH HAS NO POWER, IF ALL BUSES TO IT ARE DROPPED, THEN THE
SWITCH WILL SHOW GPC ALWAYS, AND PROGRAM CAN'T TELL WHAT POSITION IT IS
IN, SO THEREFORE IGNORE THE SWITCH. $

```

```

323 0F2B IF (SWITCH) ROW (TMP) (NOPOWER) IS ON THEN GOTO STEP 1120;
$ CHECK THE SWITCH AND IF IT IS IN THE EXPECTED POSITION, THEN GO TO NEXTS
$ SWITCHS

```

```

324 0F37 IF (SWITCH) ROW (TMP) (ACTUAL) IS
(SWITCH) ROW (TMP) (EXPECTED)
AND
(SWITCH) ROW (TMP1) (ACTUAL) IS
(SWITCH) ROW (TMP1) (EXPECTED) THEN GOTO STEP 1120;

```

325 0F4E STEP 1150 CONTINUE;

\$ FIGURE OUT WHAT THE NAME OF THE SWITCH IS. \$

326 0F51 LET (SWITCH NAME) = ((TMP1) + 1) / 2;

```

327 0F5A IF (SWITCH NAME) IS GREATER THAN 26 THEN
BEGIN SEQUENCE;

```

328 0F62 IF (SWITCH NAME) IS LESS THAN 29 THEN

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

```

IC
ISN ADDR EXPANDED SOURCE STATEMENT
BEGIN SEQUENCE?
329 0F6A IF (DUMP1) = 1 THEN GOTO STEP 1120;
330 0F75 ELSE
LET (DUMP1) = 1;
331 0F7A END SEQUENCE?
332 0F7C IF (SWITCH NAME) = 29 OR (SWITCH NAME) = 30 THEN
BEGIN SEQUENCE?
333 0F8B IF (DUMP2) = 1 THEN GOTO STEP 1120;
334 0F96 ELSE
LET (DUMP2) = 1;
335 0F9B END SEQUENCE?
336 0F9D END SEQUENCE?
337 0F9F LET (POS) = 0;
338 0FA4 LET (ERROR) = 1;
$ FIGURE OUT WHAT POSITION THE SWITCH SHOULD BE IN. $
339 0FA9 IF (SWITCH) ROW (TMP) (EXPECTED) IS OFF THEN
BEGIN SEQUENCE?
340 0FB3 IF (SWITCH) ROW (TMP1) (EXPECTED) IS OFF THEN
LET (POS) = 3;
341 0FC0 IF (SWITCH) ROW (TMP1) (EXPECTED) IS ON THEN
LET (POS) = 2;
342 0FCD END SEQUENCE?
343 0FD1 ELSE
BEGIN SEQUENCE?
344 0FD3 IF (SWITCH) ROW (TMP1) (EXPECTED) IS OFF THEN

```

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
LET (POS) = 1;

345 0FE0 END SEQUENCE;

\$ IF BOTH OPEN AND CLOSED ARE ON, THEN THE PROGRAMMER MADE A MISTAKE. \$

346 0FE2 IF (SWITCH) ROW (TMP) (EXPECTED) IS ON AND  
(SWITCH) ROW (TMP1) (EXPECTED) IS ON THEN

LET (POS) = 995;

\$ IF BOTH OPEN AND CLOSED ARE ON, THEN THE SWITCH (HARDWARE) IS FAULTY. \$

347 0FE2 IF (SWITCH) ROW (TMP) (ACTUAL) IS ON AND  
(SWITCH) ROW (TMP1) (ACTUAL) IS ON THEN

LET (POS) = 999;

348 1003 IF (POS) IS GREATER THAN 900 AND  
(STEP) = 2 THEN

BEGIN SEQUENCE;

349 1010 LET (COLOR) = 3;

350 1015 IF (POS) IS LESS THAN 999 THEN

BEGIN SEQUENCE;

351 1010 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

352 1032 LET (NUMLINES) = (NUMLINES) + 2;

353 1038 RECORD TEXT (INCORRECT POS IN ARRAY. SEE PP.)

TO <PAGE-B \$DISPLAY APPLICATION PAGE-B\$> LINE(NEXTLINE) COLUMN 32 INVERT RED

;

354 1056 RECORD TEXT (VAEA6), <GMT \$GREENWICH MEAN TIME\$> FORMAT (NO FD DESCRIPTOR),

TEXT (INCORRECT POS IN ARRAY. PLEASE),

TEXT (TERM PROGRAM AND TELL PROGRAMMER),

(TEST), (SEQ), (TMP), (TMP1)

TO <CNLS-PP \$CONSOLE PRINTER PLOTTER\$> <SPA-PRNTR \$SPA PRINTER\$>;

355 10A6 PERFORM SUBROUTINE (NSWITCH) (SWITCH NAME);

356 10BB END SEQUENCE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

357 100F ELSE

BEGIN SEQUENCE;

358 10C1 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

359 10D6 LEI (NUMLINES) - (NUMLINES) - 3;

360 10DC RECORD TEXT (SWITCH SCAN INCORRECT. READING BOTH)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 INVERT R

ED;

361 10FC PERFORM SUBROUTINE (NEXT) (NEXTLINE);

362 1112 RECORD TEXT (OPEN AND CLOSED.);

TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32

INVERT RED;

363 1128 RECORD TEXT (VAEA6), <GMT \$GREENWICH MEAN TIMES> FORMAT (NO FD DESCRIPTOR),

TEXT (SWITCH IS INCORRECT. READING BOTH),

TEXT (OPEN AND CLOSED) TO <CNLS-PP \$CONSOLE PRINTER PLOTTERS> <SPA-PRNTR \$\$

PA PRINTERS\$>;

364 1168 PERFORM SUBROUTINE (NSWITCH) (SWITCH NAME);

365 117D END SEQUENCE;

366 117F END SEQUENCE;

\$ IF PROGRAM HAS PRINTED MORE THAN 22 LINES, TIME TO WAIT FOR THE OPERATOR  
TO HIT THE CONTINUE KEY BEFORE CONTINUE. \$

367 1182 IF (NUMLINES) IS GREATER THAN 20 THEN

BEGIN SEQUENCE;

368 118A PERFORM SUBROUTINE (PFPKON) 1;

369 119E PERFORM SUBROUTINE (NEXT) (NEXTLINE);

370 11B3 RECORD TEXT (PRESS CONTINUE - PFPK1 FOR)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 CYAN;

371 11CD PERFORM SUBROUTINE (NEXT) (NEXTLINE);

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

372 11E2 RECORD TEXT (MORE SWITCH CHANGES)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 CYAN;

373 11FA LET (NUMLINES) = 0;

374 11EF STEP 1005 CONTINUE;

375 1203 PERFORM SUBROUTINE (UPDATE);

376 1208 IF (ICG0) = 0 THEN GO TO STEP 1005;

377 1211 IF (IMPR2) = 2 THEN

PERFORM SUBROUTINE (CPAGE);

378 1218 END SEQUENCE;

379 1218 IF (POS) IS LESS THAN 900 THEN

BEGIN SEQUENCE;

\$ IF SWITCH IS 7, 8 OR 9 THEN IT IS IN OPEN INSTEAD OF OPEN, AND  
OUT OPEN INSTEAD OF CLOSED TO BE OUTPUT TO OPERATOR. \$

380 1225 IF (SWITCH NAME) = 7 OR (SWITCH NAME) = 8 OR (SWITCH NAME) = 9  
THEN

BEGIN SEQUENCE;

381 1238 IF (POS) = 1 OR (POS) = 2 THEN

LET (POS) = (POS) + 3;

382 124A END SEQUENCE;

\$ IF SWITCH IS 29 OR 30 THEN IT IS START INSTEAD OF OPEN AND  
STOP INSTEAD OF CLOSED TO BE OUTPUT TO OPERATOR. \$

383 124C IF (SWITCH NAME) = 27 OR (SWITCH NAME) = 28 THEN

BEGIN SEQUENCE;

384 125A IF (POS) = 1 OR (POS) = 2 THEN

LET (POS) = (POS) + 7;

385 126C END SEQUENCE;

SWITCH IS 12,15,16,23,OR 24 THEN IT IS GND INSTEAD OF C.C. \$

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
\$ IF SWITCH IS 25, THEN IT SHOULD BE AUTO INSTEAD OF GPC. \$

386 126F IF (SWITCH NAME) = 12 OR (SWITCH NAME) = 15 OR (SWITCH NAME) = 16 OR  
(SWITCH NAME) = 23 OR (SWITCH NAME) = 24 OR (SWITCH NAME) = 25  
THEN

BEGIN SEQUENCE;

387 1291 IF (POS) = 3 THEN

BEGIN SEQUENCE;

388 1298 LET (POS) = (POS) + 3;

389 129E IF (SWITCH NAME) = 25 THEN

LET (POS) = (POS) + 1;

390 12A9 END SEQUENCE;

391 12AB END SEQUENCE;

392 12AD IF (TMPP2) = 1 THEN

BEGIN SEQUENCE;

393 12B4 IF (STEP) = 2 THEN

BEGIN SEQUENCE;

\$ TO REDUCE THE NUMBER OF LINES OUTPUT, WE KEEP TRACK OF WHAT POSITION THE  
LAST SWITCH WAS MOVED TO, AND IF THEY ARE THE SAME JUST OUTPUT THE NEXT  
SWITCH NAME, NOT THE POSITION TO MOVE IT TO, IF GROUP THE SWITCHES TO BE  
POSITIONED.\$

394 12BB IF (LASTPOS) IS NOT EQUAL TO (POS) THEN

BEGIN SEQUENCE;

395 12C2 LET (LASTPOS) = (POS);

396 12C7 LET (NUMLINES) = (NUMLINES) + 2;

397 12CD PERFORM SUBROUTINE (NEXT) (NEXTLINE);

398 12E2 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

399 12F7 RECORD TEXT (POSITION TO ), (POSITION) (POS)

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT  
400 1341 RECORD TEXT (VAEA6) <GMT \$GREENWICH MEAN TIME\$> FORMAT (NO FD DESCRIPTOR)  
TEXT (POSITION) <(POSITION)> (POS) TO <ENSL-PP \$CONSOLE PRINTER PLOTTER\$>  
<SPA-PRNTR \$SPA PRINTER\$>;

401 1342 END SEQUENCE;  
402 1344 LET (COLOR) = 1;  
403 1349 LET (NUMLINES) = (NUMLINES) + 1;

404 134F PERFORM SUBROUTINE (NSWITCH) (SWITCH NAME);  
405 1364 END SEQUENCE;

406 1368 ELSE  
BEGIN SEQUENCE;

407 136A LET (TPOS) = (POS);  
408 136F IF (POS) IS GREATER THAN 3 THEN

LET (TPOS) = (POS) - 3;  
\$ CHECK TO SEE IF THE HELIUM ISOS ARE MATED, ONE OF THE ISO SWITCHES IS BEING  
CHANGED, AND IF IT IS BEING POSITIONED TO OPEN. IF SO, AND THE PRESSURE IS  
LESS THAN 700 PSI, THEN THERE IS A POSSIBILITY OF FLOODING THE AFT WITH  
HELIUM, THEREBY CREATING A HAZARDOUS CONDITION. \$

409 137B IF (SWITCH NAME) IS BETWEEN 1 AND 9 OR (SWITCH NAME) = 26 THEN  
BEGIN SEQUENCE;

410 1380 IF (TPOS) = 1 OR (TPOS) = 2 THEN  
BEGIN SEQUENCE;

411 139B LET (NOGO) = 0;  
412 13A0 IF (HE ISOS MATED) = 1 AND (TPOS) = 1 THEN  
BEGIN SEQUENCE;

413 13A9 PERFORM STATEMENT GROUPS ON (SWITCH NAME);

414 13AC STATEMENT GROUP FOR (SWITCH NAME) EQUAL TO (1)  
BEGIN SEQUENCE;



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

415 13AE READ <V41P1154A1 \$MPS E1 REG A HE OUTLET PRESS\$> AND SAVE AS (PRESS);

416 13BA IF (PRESS) IS LESS THAN 710 PSIA THEN

LET (NOGO) = 1;

417 13C6 END SEQUENCE;

418 13CB STATEMENT GROUP FOR (SWITCH NAME) EQUAL TO (2)

BEGIN SEQUENCE;

419 13CD READ <V41P1153A1 \$MPS E1 REG B HE OUTLET PRESS\$> AND SAVE AS (PRESS);

420 13D9 IF (PRESS) IS LESS THAN 710 PSIA THEN

LET (NOGO) = 2;

421 13E5 END SEQUENCE;

422 13EA STATEMENT GROUP FOR (SWITCH NAME) EQUAL TO (3)

BEGIN SEQUENCE;

423 13EC READ <V41P1254A1 \$MPS E2 REG A HE OUTLET PRESS\$> AND SAVE AS (PRESS);

424 13F8 IF (PRESS) IS LESS THAN 710 PSIA THEN

LET (NOGO) = 3;

425 1405 END SEQUENCE;

426 140A STATEMENT GROUP FOR (SWITCH NAME) EQUAL TO (4)

BEGIN SEQUENCE;

427 140C READ <V41P1253A1 \$MPS E2 REG B HE OUTLET PRESS\$> AND SAVE AS (PRESS);

428 1418 IF (PRESS) IS LESS THAN 710 PSIA THEN

LET (NOGO) = 4;

429 1424 END SEQUENCE;

430 1429 STATEMENT GROUP FOR (SWITCH NAME) EQUAL TO (5)

BEGIN SEQUENCE;

431 142B READ <V41P1354A1 \$MPS E3 REG A HE OUTLET PRESS\$> AND SAVE AS (PRESS);

432 1437 IF (PRESS) IS LESS THAN 710 PSIA THEN

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

LET (NOGO) = 5;

END SEQUENCE;

STATEMENT GROUP FOR (SWITCH NAME) EQUAL TO (6)

BEGIN SEQUENCE;

READ <V41P1353A1 \$MPS E3 REG B HE OUTLET PRESS\$> AND SAVE AS (PRESS);

IF (PRESS) IS LESS THAN 710 PSIA THEN

LET (NOGO) = 6;

END SEQUENCE;

STATEMENT GROUP FOR (SWITCH NAME) EQUAL TO (26)

BEGIN SEQUENCE;

READ <V41P1605A1 \$MPS PNEU VLVS REG HE OUTLET PRESS\$> AND SAVE AS (PRESS);

READ <V41P1650A1 \$MPS PNEU ACCUMULATOR PRESSURE\$> AND SAVE AS (PRESS2);

IF (PRESS) IS LESS THAN 710 PSIA OR  
(PRESS2) IS LESS THAN 710 PSIA THEN

LET (NOGO) = 26;

END SEQUENCE;

END STATEMENT GROUPS FOR (SWITCH NAME);

END SEQUENCE;

IF (SWITCH NAME) IS BETWEEN 7 AND 9 AND (TPOS) = 2 THEN

BEGIN SEQUENCE;

PERFORM STATEMENT GROUPS ON (SWITCH NAME);

STATEMENT GROUP FOR (SWITCH NAME) EQUAL TO (7)

BEGIN SEQUENCE;

READ <V41P1600A1 \$MPS PNEU VLVS HE SUP BOTTLE PRESS\$> <V41P1150C1 \$MPS E1 HE SUPPL

Y BOTTLE PRESS\$>

AND SAVE AS (PRESS); (PRESS2);

LET (PRESS) = (PRESS2) - (PRESS);

- VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

450 14F2 IF (PRESS) IS GREATER THAN 200 PSIA THEN

LET (NOGO) = 7;

END SEQUENCE;

451 14FE STATEMENT GROUP FOR (SWITCH NAME) EQUAL TO (8)

BEGIN SEQUENCE;

452 1506 READ <V41P1600A1 \$MPS PNEU VLVS HE SUP BOTTLE PRESS\$> <V41P1250C1 \$MPS E2 HE SUPPL

Y BOTTLE PRESS\$>

AND SAVE AS (PRESS); (PRESS2);

453 1518 LET (PRESS) = (PRESS2) - (PRESS);

454 1522 IF (PRESS) IS GREATER THAN 200 PSIA THEN

LET (NOGO) = 8;

END SEQUENCE;

455 1533 STATEMENT GROUP FOR (SWITCH NAME) EQUAL TO (9)

BEGIN SEQUENCE;

456 1535 READ <V41P1600A1 \$MPS PNEU VLVS HE SUP BOTTLE PRESS\$> <V41P1350C1 \$MPS E3 HE SUPPL

Y BOTTLE PRESS\$>

AND SAVE AS (PRESS); (PRESS2);

457 154A LET (PRESS) = (PRESS2) - (PRESS);

458 1551 IF (PRESS) IS GREATER THAN 200 PSIA THEN

LET (NOGO) = 9;

END SEQUENCE;

459 1562 END STATEMENT GROUPS FOR (SWITCH NAME);

END SEQUENCE;

460 1573 IF (NOGO) IS GREATER THAN 0 THEN

BEGIN SEQUENCE;

461 1575 LET (NOGO) = 7 OR (NOGO) = 8 OR (NOGO) = 9 THEN

LET (NG2) = 1;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

IGN ADDR EXPANDED SOURCE STATEMENT  
466 1596 ELSE

LET (NG1) = 1;

467 159B LET (HE ISO RELIEF) = (HE ISO RELIEF) + 1;

468 15A1 LET (COLOR) = 3;

469 15A6 PERFORM SUBROUTINE (NSWITCH) (SWITCH NAME);

470 15BB IF (HE ISO RELIEF) = 1 THEN

RECORD TEXT (WARNING: CHANGING )

TO <PAGE-A \$DISPLAY APPLICATION PAGE-A\$> RED TO <CN5L PP \$CONSOLE PRINTER PLOT  
TERS\$ <SPA-PRNTR \$SPA PRINTER\$>;

471 15DD RECORD (NSWITCH NAME) TO <PAGE-A \$DISPLAY APPLICATION PAGE-A\$> RED  
TO <CN5L-PP \$CONSOLE PRINTER PLOTTER\$> <SPA-PRNTR \$SPA PRINTER\$>;

472 15F2 END SEQUENCE;

473 15F4 END SEQUENCE;

474 15F6 END SEQUENCE;

475 15F8 END SEQUENCE;

476 15FA END SEQUENCE;

477 15FE ELSE

\$ ERROR IN SWITCH SCAN; TELL THEM. \$

BEGIN SEQUENCE;

478 1601 LET (NUMLINES) = (NUMLINES) + 3;

479 1607 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

480 161C RECORD TEXT (SWITCH IN INCORRECT POSITION, SB: )

TO <PAGE-B \$DISPLAY APPLICATION PAGE-B\$> LINE (NEXTLINE) COLUMN 32 YELLOW;

481 163B PERFORM SUBROUTINE (NEXT) (NEXTLINE);

482 1650 RECORD (POSITION) (POS)

TO <PAGE-B \$DISPLAY APPLICATION PAGE-B\$> LINE (NEXTLINE) COLUMN 32 YELLOW;

483 1661 RECORD TEXT (VAEA6); <GMT \$GREENWICH MEAN TIME\$> FORMAT (NO FD DESCRIPTOR);

ISN ADDR EXPANDED SOURCE STATEMENT  
TEXT (SWITCH IN INCORRECT POSITION, SB:),  
(POSITION) (POS) TO <CNLSL-PP \$CONSOLE PRINTER PLOTTER\$> <SPA-PRNTR \$SPA PRINTER  
\$>;

```
484-169f LET (COLOR) = 2;  
485-16A4 PERFORM SUBROUTINE (NSWITCH) (SWITCH NAME);  
486-16B0 END SEQUENCE;  
487-16B0 END SEQUENCE;  
488-16B0 STEP 1120 CONTINUE;  
489-16C0 END SEQUENCE;  
490-16C8 IF (TMP2) = 1 THEN  
491-16CF BEGIN SEQUENCE;  
492-16D6 IF (THE ISO RELIEF) IS GREATER THAN 0 THEN  
493-16DE PERFORM SUBROUTINE (NEXT) (NEXTLINE);  
494-16F3 LET (NUMLINES) = (NUMLINES) + 2;  
495-16F9 RECORD TEXT (SEE WARNING ABOUT SWITCHES ON PAGE-A);  
496-171B TO <PAGE-B $DISPLAY APPLICATION PAGE B$> LINE(NEXTLINE) COLUMN 32 YELLOW;  
497-1730 PERFORM SUBROUTINE (NEXT) (NEXTLINE);  
498-174c RECORD TEXT (THEN PRESS CONTINUE - PPRK1)  
TO <PAGE-B $DISPLAY APPLICATION PAGE B$> LINE(NEXTLINE) COLUMN 32 YELLOW;  
IF (NG1) = 1 THEN  
RECORD TEXT (TO THE OPEN POSITION IS A HAZARDOUS ACTIVITY)  
TEXT ( DUE TO THE POSSIBILITY OF A)  
TEXT (HELIUM REGULATOR OR RELIEF VALVE FAILURE)  
TEXT ( CAUSING HELIUM LEAKAGE IN THE )  
TEXT (AFT FUSELAGE. PLEASE CLEAR THE AFT.)  
TO <PAGE-A $DISPLAY APPLICATION PAGE A$> RED TO <CNLSL-PP $CONSOLE PRINTER P
```

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
LOTTERS\$ <SPA-PRNTR \$SPA PRINTERS\$>

499 17C2 RECORD TEXT ( ) TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$>

500 17CC IF (NG2) = 1 THEN

RECORD TEXT (TO THE OUT POSITION SHOULD NOT BE DONE UNTIL )

~~TEXT (THE OPERATOR CAN ALTER THE )~~

TEXT (DIFFERENTIAL PRESSURE BETWEEN THE SSME T)

~~TEXT (ANKS AND THE MPS TANKS TO BELOW )~~

TEXT (200 PSIA. PLEASE DO SO.)

TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> YELLOW TO <CNLSL-PP \$CONSOLE PRINTER P  
LOTTERS\$ <SPA-PRNTR \$SPA PRINTERS\$>

501 183C RECORD TEXT ( ) TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$>

502 1846 RECORD TEXT (NOTE:)

NEXT TEXT (IF ALL THE ABOVE ARE DEMATED, THEN THIS)

TEXT ( WARNING DOES NOT APPLY)

TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> YELLOW TO <CNLSL-PP \$CONSOLE PRINTER  
R PLOTTERS\$ <SPA-PRNTR \$SPA PRINTERS\$>

503 187D RECORD TEXT ( ) TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$>

504 1888 IF (NG1) = 1 THEN

RECORD TEXT (CAUTION:)

NEXT TEXT (PRIOR TO PRESSURIZATION OF THE SSME )

TEXT (HELIUM SYSTEM, VERIFY THE SSME )

TEXT (HYDRAULIC SYSTEM IS CONNECTED TO THE )

TEXT (ORBITER HYDRAULIC SYSTEM OR TO )

TEXT (OTHER EQUIPMENT THAT WILL RELIEVE ANY)

TEXT ( BUILD UP OF HYDRAULIC PRESSURE IN )

TEXT (THE ENGINE VALVE ACTUATORS IF ENGINES)

TEXT ( ARE INSTALLED.)

TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> YELLOW TO <CNLSL-PP \$CONSOLE PRINTER  
R PLOTTERS\$ <SPA-PRNTR \$SPA PRINTERS\$>

505 192F PERFORM SUBROUTINE (PPKON) 1;

506 1943 STEP 1180 CONTINUE;

507 1946 PERFORM SUBROUTINE (UPDATE);

508 194B IF (ICGO) = 0 THEN GOTO STEP 1180;

509 1954 END SEQUENCE;

510 1956 LET (STEP) = 2;

511 195B GOTO STEP 1145;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
 ISN ADDR EXPANDED SOURCE STATEMENT

512 195F END SEQUENCE;

513 1961 IF (ERROR) = 0 THEN

BEGIN SEQUENCE;

514 1968 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

515 1970 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

516 1993 RECORD TEXT (SWITCHES CORRECT, PRESS CONTINUE-PPPK1)  
 TO <PAGE-B \$DISPLAY APPLICATION PAGE BS> LINE (NEXTLINE) COLUMN 32 GREEN;

517 1984 RECORD TEXT (VAEA6), <GMT \$GREENWICH MEAN TIMES> FORMAT (NO FD DESCRIPTOR),  
 TEXT (SWITCHES ALL CORRECT, PRESS CONTINUE - PPK1.)  
 TO <CNLSL-PP \$CONSOLE PRINTER PLOTTERS> <SPA-PRNTR \$SPA PRINTERS>;

518 19F2 END SEQUENCE;

519 19F6 ELSE

BEGIN SEQUENCE;

520 19F8 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

521 1A0E PERFORM SUBROUTINE (NEXT) (NEXTLINE);

522 1A23 RECORD TEXT (WAIT 3 SECONDS AFTER SWITCH CHANGES),  
 TO <PAGE-B \$DISPLAY APPLICATION PAGE BS> LINE (NEXTLINE) COLUMN 32 GREEN;

523 1A43 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

524 1A58 RECORD TEXT (THEN PRESS CONTINUE - PPK1)  
 TO <PAGE-B \$DISPLAY APPLICATION PAGE BS> LINE (NEXTLINE) COLUMN 32 GREEN;

525 1A74 RECORD TEXT (VAEA6), <GMT \$GREENWICH MEAN TIMES> FORMAT (NO FD DESCRIPTOR),  
 TEXT (PRESS CONTINUE AFTER SWITCH CHANGES)  
 TO <CNLSL-PP \$CONSOLE PRINTER PLOTTERS> <SPA-PRNTR \$SPA PRINTERS>;

526 1AAE END SEQUENCE;

527 1AB0 PERFORM SUBROUTINE (PPFKON) 1;

528 1AC4 STEP 1050 CONTINUE;

529 1AC7 PERFORM SUBROUTINE (UPDATE);

530 1ACC IF (ICGO) = 0 THEN GOTO STEP 1050;

531 1AD5 END SEQUENCE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

532 1A07 IF (IMPR2) = 2 AND (ERROR) = 1 THEN  
BEGIN SEQUENCE;

\$ ERROR IN SWITCH SCAN, WAIT FOR CHOICE OF REBO, OR GO ON. \$

533 1A51 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

534 1A56 RECORD TEXT (ERROR IN SWITCH SCAN, PLEASE CHOOSE)  
TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE)  
COLUMN 32 YELLOW;

535 1B17 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

536 1B2C RECORD TEXT (VERIFY AGAIN - PFPK2-OR)  
TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 YELLOW;

537 1B46 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

538 1B5B RECORD TEXT (ERRORS-CONTINUE - PEPK5)  
TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 YELLOW;

539 1B75 LET (AGAIN) = 0;

540 1B7A PERFORM SUBROUTINE (PFPKON) 2;

541 1B8F PERFORM SUBROUTINE (PFPKON) 5;

542 1BA3 STEP 1060 CONTINUE;

543 1BA6 PERFORM SUBROUTINE (UPDATE);

544 1BAB IF (IC60) = 0 THEN GOTO STEP 1060;

545 1BB4 IF (AGAIN) = 1 THEN

GOTO STEP 1000;

546 1BB8 LET (ERRORCOL) = 1;

547 1BC2 END SEQUENCE;

548 1BC4 END SEQUENCE;

\$ IF TERMINATING PROGRAM, GOTO STEP 999, ALL SWITCHES HAVE BEEN CHECKED. \$

549 1BCC IF (TERMPGM) = 1 THEN GOTO STEP 999;

550 1B04 SIFC 1070 CONTINUE;



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

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IC
ISN ADDR EXPANDED SOURCE STATEMENT
$ IF IT IS YOUR LAST SEQUENCE (SEQUENCE=3 OR 4) THEN GET CORRECT TEST NAME,
AND OUTPUT IF TEST WAS OK, OR HAD ERRORS.
551 1BD7 IF (SEQ) = 3 OR (SEQ) = 4 THEN
BEGIN SEQUENCE;
552 1BE5 $ CLEAR THE RIGHT SIDE OF THE SKELETON ON PAGE 8.
PERFORM SUBROUTINE (CPAGE);
553 1BEA IF (TEST) = 1 THEN
ASSIGN (TESTNAME) = TEXT (AB1);
554 1BF7 IF (TEST) = 2 THEN
ASSIGN (TESTNAME) = TEXT (AB1/AB2);
555 1E07 IF (TEST) = 3 THEN
ASSIGN (TESTNAME) = TEXT (AB1/AB2/AB3);
556 1C18 IF (TEST) = 4 THEN
BEGIN SEQUENCE;
557 1C1F IF (SEQ) = 4 THEN
BEGIN SEQUENCE;
558 1C26 ASSIGN (TESTNAME) = TEXT (AB2);
559 1C2E SET <V41K1162XL SMP5 E1 HE INTCN IN (LV59) OP CMD AS>
<V41K1163XL SMP5 E1 HE INTCN IN (LV59) OP CMD BS>
<V41K1256XL SMP5 E2 HE ISO VLV B (LV4) OP CMD AS>
<V41K1257XL SMP5 E2 HE ISO VLV B (LV4) OP CMD BS> TO OFF;
560 1C4B END SEQUENCE;
561 1C4F ELSE
BEGIN SEQUENCE;
562 1C51 SET <V41K1162XL SMP5 E1 HE INTCN IN (LV59) OP CMD AS>
<V41K1163XL SMP5 E1 HE INTCN IN (LV59) OP CMD BS>
<V41K1256XL SMP5 E2 HE ISO VLV B (LV4) OP CMD AS>
<V41K1257XL SMP5 E2 HE ISO VLV B (LV4) OP CMD BS> TO ON;
563 1C6E ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;
564 1C73 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;
565 1C78 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;
566 1C7D ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;
567 1C83 ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;

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*Handwritten notes:*

- 558 1C26: *CS*
- 559 1C2E: *CS*
- 560 1C4B: *CS*
- 561 1C4F: *CS*
- 562 1C51: *CS*
- 563 1C6E: *CS*
- 564 1C73: *CS*
- 565 1C78: *CS*
- 566 1C7D: *CS*
- 567 1C83: *CS*

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

568 1C8A ~~GOTO STEP 1090;~~

569 1C8B ~~END SEQUENCE;~~

570 1C8D ~~END SEQUENCE;~~

571 1C8E ~~IF (TEST) = 5 THEN~~

~~ASSIGN (TESTNAME) = TEXT (AB2/AB3);~~

572 1C9E IF (TEST) = 6 THEN

BEGIN SEQUENCE;

573 1CA5 IF (SEQ) = 4 THEN

BEGIN SEQUENCE;

574 1CAC ASSIGN (TESTNAME) = TEXT (AB3);

575 1CB4 SET <V41K1356XL \$MPS F3 HE ISO VLV B (LV6) OP CMD AS>

<V41K1357XL \$MPS E3 HE ISO VLV B (LV6) OP CMD BS>

<V41K1362XL \$MPS E3 HE INTCN IN (LV63) OP CMD AS>

<V41K1363XL \$MPS E3 HE INTCN IN (LV63) OP CMD BS>

<V41K1607XL \$MPS PNEU HE ISO VLV 1 (LV7) OP CMD S>

<V41K1608XL \$MPS PNEU HE ISO VLV 2 (LV8) OP CMD S> TO OFF;

576 1CDR ~~END SEQUENCE;~~

577 1CDF ELSE

BEGIN SEQUENCE;

578 1CE1 SET <V41K1356XL \$MPS E3 HE ISO VLV B (LV6) OP CMD AS>

<V41K1357XL \$MPS E3 HE ISO VLV B (LV6) OP CMD BS>

<V41K1362XL \$MPS E3 HE INTCN IN (LV63) OP CMD AS>

<V41K1363XL \$MPS E3 HE INTCN IN (LV63) OP CMD BS> TO ON;

579 1CFE SET <V41K1607XL \$MPS PNEU HE ISO VLV 1 (LV7) OP CMD S>

<V41K1608XL \$MPS PNEU HE ISO VLV 2 (LV8) OP CMD S> TO OFF;

580 1D12 ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;

581 1D17 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;

582 1D1C ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;

583 1D21 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;

584 1D26 GOTO STEP 1090;

585 1D29 END SEQUENCE;

586 1D2B END SEQUENCE;

*Handwritten notes:*  
- A large scribble at the top right.  
- "X" and "S" written near line 573.  
- "X" and "S" written near line 574.  
- "X" and "S" written near line 575.  
- "X" and "S" written near line 576.  
- "X" and "S" written near line 577.  
- "X" and "S" written near line 578.  
- "X" and "S" written near line 579.  
- "X" and "S" written near line 580.  
- "X" and "S" written near line 581.  
- "X" and "S" written near line 582.  
- "X" and "S" written near line 583.  
- "X" and "S" written near line 584.  
- "X" and "S" written near line 585.  
- "X" and "S" written near line 586.

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

IC  
VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

ISN ADDR EXPANDED SOURCE STATEMENT

587 1020 IF (TEST) = 7 THEN

BEGIN SEQUENCE;

588 1034 IF (SEQ) = 4 THEN

BEGIN SEQUENCE;

589 1030 ASSIGN (TESTNAME) = TEXT (061);

590 1043 SET <V41K1356XL \$MPS E3 HE ISO VLV B (LV6) OP CMD A\$>

<V41K1357XL \$MPS E3 HE ISO VLV B (LV6) OP CMD B\$> TO OFF;

591 1056 END SEQUENCE;

592 105A ELSE

BEGIN SEQUENCE;

593 105C SET <V41K1356XL \$MPS E3 HE ISO VLV B (LV6) OP CMD A\$>

<V41K1357XL \$MPS E3 HE ISO VLV B (LV6) OP CMD B\$> TO ON;

594 106F ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;

595 1074 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

596 1079 GOTO STEP 1090;

597 107C END SEQUENCE;

598 107E END SEQUENCE;

599 1081 IF (TEST) = 8 THEN

ASSIGN (TESTNAME) = TEXT (BC1/BC2);

600 1090 IF (TEST) = 9 THEN

ASSIGN (TESTNAME) = TEXT (3C1/BC2/BC3);

601 10A1 IF (TEST) = 10 THEN

BEGIN SEQUENCE;

602 10A8 IF (SEQ) = 4 THEN

BEGIN SEQUENCE;

603 10AF ASSIGN (TESTNAME) = TEXT (BC2);

604 10B7 SET <V41K1156XL \$MPS E1 HE ISO VLV B (LV2) OP CMD A\$>

<V41K1157XL \$MPS E1 HE ISO VLV B (LV2) OP CMD B\$>

<V41K1262XL \$MPS E2 HE INTCN IN (LV61) OP CMD A\$>

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
<V41K1263XL \$MPS E2 HE INTCN IN (LV61) OP CMD BS>  
<V41K1435XL \$MPS LH2 MANF REPRSS 1(LV42) OP CMD BS>  
<V41K1437XL \$MPS LH2 MANF REPRSS 2(LV43) OP CMD BS> TO OFF;

605 1DDE END SEQUENCE;

606 1DE2 ELSE

BEGIN SEQUENCE;

607 1DE4 SET <V41K1156XL \$MPS E1 HE ISO VLV B (LV2) OP CMD AS>  
<V41K1157XL \$MPS E1 HE ISO VLV B (LV2) OP CMD BS>  
<V41K1262XL \$MPS E2 HE INTCN IN (LV61) OP CMD AS>  
<V41K1263XL \$MPS E2 HE INTCN IN (LV61) OP CMD BS>  
<V41K1435XL \$MPS LH2 MANF REPRSS 1(LV42) OP CMD BS>  
<V41K1437XL \$MPS LH2 MANF REPRSS 2(LV43) OP CMD BS> TO ON;

608 1E0C ASSIGN (VALUE1) ROW 8 (EXPECTED) = ON;  
609 1E11 ASSIGN (VALUE1) ROW 19 (EXPECTED) = ON;  
610 1E16 ASSIGN (VALUE1) ROW 35 (EXPECTED) = ON;  
611 1E18 ASSIGN (VALUE1) ROW 99 (EXPECTED) = ON;  
612 1E20 ASSIGN (VALUE2) ROW 3 (EXPECTED) = ON;

613 1E25 GOTO STEP 1090;

614 1E28 END SEQUENCE;

615 1E2A END SEQUENCE;

616 1E2C IF (TEST) = 11 THEN  
ASSIGN (TESTNAME) = TEXT (8C2/BC3);

617 1E3B IF (TEST) = 12 THEN

BEGIN SEQUENCE;

618 1E42 IF (SEQ) = 4 THEN

BEGIN SEQUENCE;

ASSIGN (TESTNAME) = TEXT (BC3);

620 1E51 SET <V41K1162XL \$MPS E1 HE INTCN IN (LV59) OP CMD AS>  
<V41K1163XL \$MPS E1 HE INTCN IN (LV59) OP CMD BS>  
<V41K1435XL \$MPS LH2 MANF REPRSS 1(LV42) OP CMD BS>  
<V41K1437XL \$MPS LH2 MANF REPRSS 2(LV43) OP CMD BS>  
<V41K1607XL \$MPS PNEU HE ISO VLV 1 (LV7) OP CMD BS>  
<V41K1608XL \$MPS PNEU HE ISO VLV 2 (LV8) OP CMD BS> TO OFF;

621 1E7B END SEQUENCE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
622 1E7C ELSE

BEGIN SEQUENCE;

623 1E7E SET <V41K1162XL \$MPS E1 HE INTCN IN (LV59) OP CMD AS>  
<V41K1163XL \$MPS E1 HE INTCN IN (LV59) OP CMD BS>  
<V41K1435XL \$MPS LH2 MANF REPRSS 1(LV42) OP CMD\$>  
<V41K1437XL \$MPS LH2 MANF REPRSS 2(LV43) OP CMD\$> TO ON;

624 1E9C SET <V41K1607XL \$MPS PNEU HE ISO VLV 1 (LV7) OP CMD\$>  
<V41K1608XL \$MPS PNEU HE ISO VLV 2 (LV8) OP CMD\$> TO OFF;

625 1EAF ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
626 1EB4 ASSIGN (VALVE1) ROW 36 (EXPECTED) = ON;  
627 1EB9 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;

628 1EBE GOTO STEP 1090;

629 1EC1 END SEQUENCE;

630 1EC3 END SEQUENCE;

631 1EC5 IF (TEST) = 13 THEN

BEGIN SEQUENCE;

632 1ECC IF (SEQ) = 4 THEN

BEGIN SEQUENCE;

633 1ED3 ASSIGN (TESTNAME) = TEXT (CAT);

634 1EDB SET <V41K1256XL \$MPS E2 HE ISO VLV B (LV4) OP CMD AS>  
<V41K1257XL \$MPS E2 HE ISO VLV B (LV4) OP CMD BS>  
<V41K1362XL \$MPS E3 HE INTCN IN (LV63) OP CMD AS>  
<V41K1363XL \$MPS E3 HE INTCN IN (LV63) OP CMD BS>  
<V41K1535XL \$MPS L02 MANF REPRSS 1(LV40) OP CMD\$>  
<V41K1537XL \$MPS L02 MANF REPRSS 2(LV41) OP CMD\$> TO OFF;

635 1F03 END SEQUENCE;

636 1F07 ELSE

BEGIN SEQUENCE;

637 1F09 SET <V41K1256XL \$MPS E2 HE ISO VLV B (LV4) OP CMD AS>  
<V41K1257XL \$MPS E2 HE ISO VLV B (LV4) OP CMD BS>  
<V41K1362XL \$MPS E3 HE INTCN IN (LV63) OP CMD AS>  
<V41K1363XL \$MPS E3 HE INTCN IN (LV63) OP CMD BS>  
<V41K1535XL \$MPS L02 MANF REPRSS 1(LV40) OP CMD\$>  
<V41K1537XL \$MPS L02 MANF REPRSS 2(LV41) OP CMD\$> TO ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

638 1F30 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;  
639 1F35 ASSIGN (VALVE1) ROW 20 (EXPECTED) = ON;  
640 1F3A ASSIGN (VALVE1) ROW 46 (EXPECTED) = ON;  
641 1F3F ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;  
642 1F44 ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;

643 1F49 GOTO STEP 1090;

644 1F4C END SEQUENCE;

645 1F4E END SEQUENCE;

646 1F50 IF (TEST) = 14 THEN  
ASSIGN (TESTNAME) = TEXT (CA1/CA2);

647 1F5F IF (TEST) = 15 THEN  
ASSIGN (TESTNAME) = TEXT (CA1/CA2/CA3);

648 1F70 IF (TEST) = 16 THEN  
BEGIN SEQUENCE;

649 1F77 IF (SEQ) = 4 THEN  
BEGIN SEQUENCE;

650 1F7E ASSIGN (TESTNAME) = TEXT (CA2);

651 1F87 SET <V4TK1535XL \$MPS L02 MANF REPRSS 1(LV40) OP CMD\$>  
<V4TK1537XL \$MPS L02 MANF REPRSS 2(LV41) OP CMD\$> TO OFF;

652 1F9A END SEQUENCE;

653 1F9E ELSE  
BEGIN SEQUENCE;

654 1FA0 SET <V4TK1535XL \$MPS L02 MANF REPRSS 1(LV40) OP CMD\$>  
<V4TK1537XL \$MPS L02 MANF REPRSS 2(LV41) OP CMD\$> TO ON;

655 1FB3 ASSIGN (VALVE1) ROW 47 (EXPECTED) = ON;

656 1FB8 GOTO STEP 1090;

657 1FB0 END SEQUENCE;

658 1FB0 END SEQUENCE;

659 1FBF IF (TEST) = 17 THEN  
ASSIGN (TESTNAME) = TEXT (CA2/CA3);

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

660 1FE4 IF (TEST) = 18 THEN

BEGIN SEQUENCE;

661 1F05 IF (SEQ) = 4 THEN

BEGIN SEQUENCE;

662 1F0C ASSIGN (TESTNAME) = TEXT (CA3);

663 1FE4 SET <V41K1156XL \$MPS E1 HE ISO VLV B (LV2) OP CMD AS>

<V41K1157XL \$MPS E1 HE ISO VLV B (LV2) OP CMD BS>

<V41K1262XL \$MPS E2 HE INTCN IN (LV61) OP CMD AS>

<V41K1263XL \$MPS E2 HE INTCN IN (LV61) OP CMD BS> TO OFF;

664 2002 END SEQUENCE;

665 2006 ELSE

BEGIN SEQUENCE;

666 2008 SET <V41K1156XL \$MPS E1 HE ISO VLV B (LV2) OP CMD AS>

<V41K1157XL \$MPS E1 HE ISO VLV B (LV2) OP CMD BS>

<V41K1262XL \$MPS E2 HE INTCN IN (LV61) OP CMD AS>

<V41K1263XL \$MPS E2 HE INTCN IN (LV61) OP CMD BS> TO ON;

667 2025 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;

668 202A ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;

669 202F ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;

670 2034 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;

671 2039 GOTO STEP 1090;

672 203C END SEQUENCE;

673 203E END SEQUENCE;

674 2040 IF (TEST) = 19 THEN

ASSIGN (TESTNAME) = TEXT (CA3/CA1);

675 204F IF (TEST) = 20 THEN

ASSIGN (TESTNAME) = TEXT (BC1/AB1/CA1);

676 2060 IF (TEST) = 21 THEN

ASSIGN (TESTNAME) = TEXT (9C2/CA1);

677 206F IF (TEST) = 22 THEN

BEGIN SEQUENCE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
678 2076 IF (SEQ) = 4 THEN

BEGIN SEQUENCE;

679 207D ASSIGN (TESTNAME) = TEXT (AB3/A91);

680 2088 SET <V41K141XL \$MPS LH2 TOPPING VLV (PV13) OP CMD\$> TO OFF;

681 2096 END SEQUENCE;

682 209A ELSE

BEGIN SEQUENCE;

683 209C SET <V41K141XL \$MPS LH2 TOPPING VLV (PV13) OP CMD\$> TO ON;

684 20AA ASSIGN (VALVE1) ROW 38 (EXPECTED) = ON;

685 20AF GOTO STEP 1090;

686 20B2 END SEQUENCE;

687 20B4 END SEQUENCE;

688 20B6 IF (TEST) = 23 THEN  
ASSIGN (TESTNAME) = TEXT (CA2/AB1);

689 20C5 IF (TEST) = 24 THEN  
ASSIGN (TESTNAME) = TEXT (BC3/BC1);

690 20D4 IF (TEST) = 25 THEN  
ASSIGN (TESTNAME) = TEXT (AB2/BC1);

691 20E3 IF (TEST) = 26 THEN  
ASSIGN (TESTNAME) = TEXT (CA3/AB1);

692 20F2 IF (TEST) = 27 THEN  
ASSIGN (TESTNAME) = TEXT (BC1/AB3);

693 2102 IF (TEST) = 28 THEN  
ASSIGN (TESTNAME) = TEXT (AB2/AB3/BC1);

694 2113 IF (TEST) = 29 THEN  
ASSIGN (TESTNAME) = TEXT (AB3/BC1/AB1);

695 2124 IF (TEST) = 30 THEN  
ASSIGN (TESTNAME) = TEXT (BC3/CA1);

696 2133 IF (TEST) = 31 THEN  
ASSIGN (TESTNAME) = TEXT (BC2/BC3/CA1);



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

697 2144 IF (TEST) = 32 THEN

ASSIGN (TESTNAME) = TEXT (BC1/BC3/CA1);

698 2155 IF (TEST) = 33 THEN

ASSIGN (TESTNAME) = TEXT (CA1/CA3/AB1);

699 2166 IF (TEST) = 34 THEN

ASSIGN (TESTNAME) = TEXT (AB1/CA2/CA3);

700 2177 IF (TEST) = 35 THEN

ASSIGN (TESTNAME) = TEXT (AB3/BC2);

701 2187 IF (TEST) = 36 THEN

ASSIGN (TESTNAME) = TEXT (AB3/CA1);

702 2196 IF (TEST) = 37 THEN

ASSIGN (TESTNAME) = TEXT (INITIAL SET UP);

703 21A8 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

704 21B0 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

705 21D2 IF (ERRORCOL) = 1 THEN

BEGIN SEQUENCE;

706 21D9 RECORD TEXT (TEST COMPLETE - WITH ERRORS)

TO <PAGE-B.\$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 36 CYAN;

707 21F5 RECORD TEXT (VAEA6), <GMT \$GREENWICH MEAN TIMES> FORMAT (NO FD DESCRIPTOR),

TEXT (TEST COMPLETE - WITH ERRORS) TO <CNLS-PP.\$CONSOLE PRINTER PLOTTER\$> <SPA-PR

NTR \$SPA PRINTERS\$>;

708 222B PERFORM SUBROUTINE (NVERT) 3;

709 223F END SEQUENCE;

710 2243 ELSE

BEGIN SEQUENCE;

711 2245 RECORD TEXT (TEST COMPLETE - NO ERRORS)

TO <PAGE-B.\$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 36 CYAN;

712 2260 RECORD TEXT (VAEA6), <GMT \$GREENWICH MEAN TIMES> FORMAT (NO FD DESCRIPTOR),

TEXT (TEST COMPLETE - NO ERRORS) TO <CNLS-PP.\$CONSOLE PRINTER PLOTTER\$> <SPA-PRNT

R \$SPA PRINTERS\$>;

713 2295 PERFORM SUBROUTINE (NVERT) 2;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

714-22A9 END SEQUENCE;

715-22A8 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

716-22C0 RECORD (TESTNAME)

IO <PAGE=8 \$DISPLAY APPLICATION PAGE=8> LINE (NEXTLINE) COLUMN 36 CYAN;

717-22CF RECORD TEXT (VAEA6); <GMT \$GREENWICH MEAN TIME> FORMAT (NO FD DESCRIPTOR);  
(TESTNAME) TO <CNCL-PP \$CONSOLE PRINTER PLOTTERS> <SPA-PRNTR \$SPA PRINTER>;

718-22F7 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

719-230D GOTO STEP 1020;

720-2310 END SEQUENCE;

721-2312 STEP 1090 CONTINUE;

722-2315 LET (ERROR) = 0;

723-231A CLEAR <PAGE=A \$DISPLAY APPLICATION PAGE AS>;

\$ CHECK VALVES FOR CORRECT INDICATIONS. \$

724-231E RECORD TEXT (VAEA6 - VALVE CONFIGURATION CHECK);

<GMT \$GREENWICH MEAN TIME> FORMAT (NO FD DESCRIPTOR)  
TO <CNCL-PP \$CONSOLE PRINTER PLOTTERS> <SPA-PRNTR \$SPA PRINTER>;

\$ CLEAR THE RIGHT SIDE OF THE SKELETON ON PAGE-B. \$

725-2350 PERFORM SUBROUTINE (CPAGE);

726-2355 IF (TEST IS CIG OR SCAN) = 2 THEN

BEGIN SEQUENCE;

727-235C READ

<V41X1158E1 \$MPS E1 HE ISO VLV A (LV1) OP PWR>;  
<V41X1159E1 \$MPS E1 HE ISO VLV B (LV2) OP PWR>;  
<V41X1258E1 \$MPS E2 HE ISO VLV A (LV3) OP PWR>;  
<V41X1259E1 \$MPS E2 HE ISO VLV B (LV4) OP PWR>;  
<V41X1358E1 \$MPS E3 HE ISO VLV A (LV5) OP PWR>;  
<V41X1359E1 \$MPS E3 HE ISO VLV B (LV6) OP PWR>;  
<V76X3050E1 \$MPS PT SENSOR ELEC RPC B ON>;  
<V76X3055E1 \$MPS PT SENSOR ELEC RPC C ON>;  
<V76X4171E1 \$PCA MPS ENG 1 HE VLV B RPC B ON>;  
<V76X4172E1 \$PCA MPS ENG 1 HE VLV B RPC C ON>;  
<V76X4173E1 \$PCA MPS ENG 2 HE VLV B RPC A ON>;  
<V76X4174E1 \$PCA MPS ENG 2 HE VLV B RPC C ON>;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

<V76X4175E1 SPCA MPS ENG 3 HE VLV B RPC A ON\$>  
~~<V76X4176E1 SPCA MPS ENG 3 HE VLV B RPC B ON\$> AND SAVE AS~~  
 (VALVE1) ROW 7 (EXPECTED),  
 (VALVE1) ROW 8 (EXPECTED),  
 (VALVE1) ROW 17 (EXPECTED),  
 (VALVE1) ROW 18 (EXPECTED),  
 (VALVE1) ROW 27 (EXPECTED),  
 (VALVE1) ROW 28 (EXPECTED),  
 (VALVE1) ROW 59 (EXPECTED),  
 (VALVE1) ROW 60 (EXPECTED),  
 (VALVE2) ROW 3 (EXPECTED),  
 (VALVE2) ROW 4 (EXPECTED),  
 (VALVE2) ROW 5 (EXPECTED),  
 (VALVE2) ROW 6 (EXPECTED),  
 (VALVE2) ROW 7 (EXPECTED),  
 (VALVE2) ROW 8 (EXPECTED),

728 2300 END SEQUENCE;

729 230F SET <V41K1481NL \$MPS LH2 ULL PRESS HI FLOW CMD 1A\$>  
 <V41K1482NL \$MPS LH2 ULL PRESS HI FLOW CMD 1B\$>  
 <V41K1483NL \$MPS LH2 ULL PRESS HI FLOW CMD 2A\$>  
 <V41K1484NL \$MPS LH2 ULL PRESS HI FLOW CMD 2B\$>  
 <V41K1485NL \$MPS LH2 ULL PRESS HI FLOW CMD 3A\$>  
 <V41K1486NL \$MPS LH2 ULL PRESS HI FLOW CMD 3B\$> TO OFF;

730 2306 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

731 23BD PERFORM STATEMENT GROUPS ON (TEST);

732 23C0 STATEMENT GROUP FOR (TEST) EQUAL TO (6)

BEGIN SEQUENCE;

733 23C2 LET (ULLAGE) ROW 1 (LOW) = 21.6 PSIG;  
 734 23C8 LET (ULLAGE) ROW 1 (HIGH) = 23.4 PSIG;  
 735 23CE LET (ULLAGE) ROW 2 (LOW) = 33.3 PSIA;  
 736 23D4 LET (ULLAGE) ROW 2 (HIGH) = 35.7 PSIA;  
 737 23DA LET (ULLAGE) ROW 3 (LOW) = -30.0 PSIG;  
 738 23E0 LET (ULLAGE) ROW 3 (HIGH) = 30.0 PSIG;  
 739 23E6 LET (ULLAGE) ROW 4 (LOW) = -30.0 PSIA;  
 740 23EC LET (ULLAGE) ROW 4 (HIGH) = 30.0 PSIA;  
 741 23F2 LET (ULLAGE) ROW 5 (LOW) = -30.0 PSIG;  
 742 23F8 LET (ULLAGE) ROW 5 (HIGH) = 30.0 PSIG;  
 743 23FE LET (ULLAGE) ROW 6 (LOW) = -30.0 PSIA;  
 744 2405 LET (ULLAGE) ROW 6 (HIGH) = 30.0 PSIA;

745 2408 SET <V41K0075XL \$MPS SC 1/P1 SENS ELECT PWR ON CMDS\$>  
 <V41K0076XL \$MPS SC 2/P1 SENS ELECT PWR ON CMDS\$>

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
<V41K0077XL \$MPS SC 3/PT SENS ELECT PWR ON CMDS> TO ON;

746 2423 SET <V41K0050NL \$MPS ALL FLOW CONTROL CHECKOUT ARMS>  
<V41K0051NL \$MPS ALL FLOW CONTROL CHECKOUT LOS>  
<V41K0052NL \$MPS E-1 FLOW CONTROL CHECKOUT HIS> TO ON;

747 243B END SEQUENCE;

748 2440 STATEMENT GROUP FOR (TEST) EQUAL TO (10)

BEGIN SEQUENCE;

749 2442 LET (ULLAGE) ROW 1 (LOW) = -30.0 PSIG;  
750 2448 ~~LET (ULLAGE) ROW 1 (HIGH) = 30.0 PSIG;~~  
751 244E LET (ULLAGE) ROW 2 (LOW) = -30.0 PSIA;  
752 2454 ~~LET (ULLAGE) ROW 2 (HIGH) = 30.0 PSIA;~~  
753 245A LET (ULLAGE) ROW 3 (LOW) = 21.6 PSIG;  
754 2460 ~~LET (ULLAGE) ROW 3 (HIGH) = 23.4 PSIG;~~  
755 2466 LET (ULLAGE) ROW 4 (LOW) = 33.3 PSIA;  
756 246C ~~LET (ULLAGE) ROW 4 (HIGH) = 35.7 PSIA;~~  
757 2472 LET (ULLAGE) ROW 5 (LOW) = -30.0 PSIG;  
758 2478 ~~LET (ULLAGE) ROW 5 (HIGH) = 30.0 PSIG;~~  
759 247E LET (ULLAGE) ROW 6 (LOW) = -30.0 PSIA;  
760 2485 ~~LET (ULLAGE) ROW 6 (HIGH) = 50.0 PSIA;~~

761 248B SET <V41K0075XL \$MPS SC 1/PT SENS ELECT PWR ON CMDS>  
<V41K0076XL \$MPS SC 2/PT SENS ELECT PWR ON CMDS>  
<V41K0077XL \$MPS SC 3/PT SENS ELECT PWR ON CMDS> TO ON;

762 24A3 SET <V41K0050NL \$MPS ALL FLOW CONTROL CHECKOUT ARMS>  
<V41K0051NL \$MPS ALL FLOW CONTROL CHECKOUT LOS>  
<V41K0052NL \$MPS E-2 FLOW CONTROL CHECKOUT HIS> TO ON;

763 248B END SEQUENCE;

764 24C0 STATEMENT GROUP FOR (TEST) EQUAL TO (13)

BEGIN SEQUENCE;

765 24C2 LET (ULLAGE) ROW 1 (LOW) = -30.0 PSIG;  
766 24C8 LET (ULLAGE) ROW 1 (HIGH) = 30.0 PSIG;  
767 24CE LET (ULLAGE) ROW 2 (LOW) = -30.0 PSIA;  
768 24D4 LET (ULLAGE) ROW 2 (HIGH) = 50.0 PSIA;  
769 24DA LET (ULLAGE) ROW 3 (LOW) = -30.0 PSIG;  
770 24E0 LET (ULLAGE) ROW 3 (HIGH) = 30.0 PSIG;  
771 24E6 LET (ULLAGE) ROW 4 (LOW) = -30.0 PSIA;  
772 24EC LET (ULLAGE) ROW 4 (HIGH) = 50.0 PSIA;  
773 24F2 LET (ULLAGE) ROW 5 (LOW) = 21.6 PSIG;  
774 24F8 LET (ULLAGE) ROW 5 (HIGH) = 23.4 PSIG;  
775 24FE LET (ULLAGE) ROW 6 (LOW) = 33.3 PSIA;  
776 2505 LET (ULLAGE) ROW 6 (HIGH) = 35.7 PSIA;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

777 250B SET <V41K0075XL \$MPS SC 1/PT SENS ELECT PWR ON CMDS>  
<V41K0076XL \$MPS SC 2/PT SENS ELECT PWR ON CMDS>  
<V41K0077XL \$MPS SC 3/PT SENS ELECT PWR ON CMDS> TO ON;

778 2523 SET <V41K0050NL \$MPS ALL FLOW CONTROL CHECKOUT ARMS>  
<V41K0051NL \$MPS ALL FLOW CONTROL CHECKOUT LOS>  
<V41K0052NL \$MPS E-3 FLOW CONTROL CHECKOUT HIS> TO ON;

779 253B END SEQUENCE;

780 2540 STATEMENT GROUP FOR (TEST) EQUAL TO (21)

BEGIN SEQUENCE;

781 2542 LET (ULLAGE) ROW 1 (LOW) = -30.0 PSIG;  
782 2548 LET (ULLAGE) ROW 1 (HIGH) = 10.0 PSIG;  
783 254E LET (ULLAGE) ROW 2 (LOW) = -30.0 PSIA;  
784 2554 LET (ULLAGE) ROW 2 (HIGH) = 24.7 PSIA;  
785 255A LET (ULLAGE) ROW 3 (LOW) = -30.0 PSIG;  
786 2560 LET (ULLAGE) ROW 3 (HIGH) = 30.0 PSIG;  
787 2566 LET (ULLAGE) ROW 4 (LOW) = -30.0 PSIA;  
788 256C LET (ULLAGE) ROW 4 (HIGH) = 50.0 PSIA;  
789 2572 LET (ULLAGE) ROW 5 (LOW) = -30.0 PSIG;  
790 2578 LET (ULLAGE) ROW 5 (HIGH) = 30.0 PSIG;  
791 257E LET (ULLAGE) ROW 6 (LOW) = -30.0 PSIA;  
792 2585 LET (ULLAGE) ROW 6 (HIGH) = 50.0 PSIA;

793 258B SET <V41K0075XL \$MPS SC 1/PT SENS ELECT PWR ON CMDS>  
<V41K0076XL \$MPS SC 2/PT SENS ELECT PWR ON CMDS>  
<V41K0077XL \$MPS SC 3/PT SENS ELECT PWR ON CMDS> TO ON;

794 25A3 SET <V41K0050NL \$MPS ALL FLOW CONTROL CHECKOUT ARMS>  
<V41K0051NL \$MPS ALL FLOW CONTROL CHECKOUT LOS>  
<V41K0052NL \$MPS E-1 FLOW CONTROL CHECKOUT HIS> TO OFF;

795 25BB END SEQUENCE;

796 25C0 STATEMENT GROUP FOR (TEST) EQUAL TO (35)

BEGIN SEQUENCE;

797 25C2 LET (ULLAGE) ROW 1 (LOW) = -30.0 PSIG;  
798 25C8 LET (ULLAGE) ROW 1 (HIGH) = 30.0 PSIG;  
799 25CE LET (ULLAGE) ROW 2 (LOW) = -30.0 PSIA;  
800 25D4 LET (ULLAGE) ROW 2 (HIGH) = 50.0 PSIA;  
801 25DA LET (ULLAGE) ROW 3 (LOW) = -30.0 PSIG;  
802 25E0 LET (ULLAGE) ROW 3 (HIGH) = 30.0 PSIG;  
803 25E6 LET (ULLAGE) ROW 4 (LOW) = -30.0 PSIA;  
804 25EC LET (ULLAGE) ROW 4 (HIGH) = 50.0 PSIA;  
805 25F2 LET (ULLAGE) ROW 5 (LOW) = -30.0 PSIG;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC EXPANDED SOURCE STATEMENT

806 25F8 LET (ULLAGE) ROW 5 (HIGH) = 10.0 PSIG;  
807 25FE LET (ULLAGE) ROW 6 (LOW) = 30.0 PSIA;  
808 2605 LET (ULLAGE) ROW 6 (HIGH) = 24.7 PSIA;

809 260B SET <V41K0075XL \$MPS SC 1/PT SENS ELECT PWR ON CMD\$>  
<V41K0076XL \$MPS SC 2/PT SENS ELECT PWR ON CMD\$>  
<V41K0077XL \$MPS SC 3/PT SENS ELECT PWR ON CMD\$> TO ON;

810 2623 SET <V41K0050NL \$MPS ALL FLOW CONTROL CHECKOUT ARMS>  
<V41K0051NL \$MPS ALL FLOW CONTROL CHECKOUT LOS>  
<V41K0054NL \$MPS E-3 FLOW CONTROL CHECKOUT HI\$> TO OFF;

811 263B END SEQUENCE;

812 2640 STATEMENT GROUP FOR (TEST) EQUAL TO (36)

BEGIN SEQUENCE;

813 2642 LET (ULLAGE) ROW 1 (LOW) = -30.0 PSIG;  
814 2648 LET (ULLAGE) ROW 1 (HIGH) = 30.0 PSIG;  
815 264E LET (ULLAGE) ROW 2 (LOW) = -30.0 PSIA;  
816 2654 LET (ULLAGE) ROW 2 (HIGH) = 50.0 PSIA;  
817 265A LET (ULLAGE) ROW 3 (LOW) = -30.0 PSIG;  
818 2660 LET (ULLAGE) ROW 3 (HIGH) = 10.0 PSIG;  
819 2666 LET (ULLAGE) ROW 4 (LOW) = -30.0 PSIA;  
820 266C LET (ULLAGE) ROW 4 (HIGH) = 24.7 PSIA;  
821 2672 LET (ULLAGE) ROW 5 (LOW) = -30.0 PSIG;  
822 2678 LET (ULLAGE) ROW 5 (HIGH) = 50.0 PSIG;  
823 267E LET (ULLAGE) ROW 6 (LOW) = -30.0 PSIA;  
824 2685 LET (ULLAGE) ROW 6 (HIGH) = 50.0 PSIA;

825 268B SET <V41K0075XL \$MPS SC 1/PT SENS ELECT PWR ON CMD\$>  
<V41K0076XL \$MPS SC 2/PT SENS ELECT PWR ON CMD\$>  
<V41K0077XL \$MPS SC 3/PT SENS ELECT PWR ON CMD\$> TO ON;

826 26A3 SET <V41K0050NL \$MPS ALL FLOW CONTROL CHECKOUT ARMS>  
<V41K0051NL \$MPS ALL FLOW CONTROL CHECKOUT LOS>  
<V41K0053NL \$MPS E-2 FLOW CONTROL CHECKOUT HI\$> TO OFF;

827 268B END SEQUENCE;

828 26C0 STATEMENT GROUP FOR (TEST) EQUAL TO OTHER VALUES

BEGIN SEQUENCE;

829 26C2 LET (ULLAGE) ROW 1 (LOW) = -30.0 PSIG;  
830 26C8 LET (ULLAGE) ROW 1 (HIGH) = 30.0 PSIG;  
831 26CE LET (ULLAGE) ROW 2 (LOW) = -30.0 PSIA;  
832 26D4 LET (ULLAGE) ROW 2 (HIGH) = 50.0 PSIA;  
833 26DA LET (ULLAGE) ROW 3 (LOW) = -30.0 PSIG;  
834 26E0 LET (ULLAGE) ROW 3 (HIGH) = 30.0 PSIG;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC EXPANDED SOURCE STATEMENT

835 26E6 LET (ULLAGE) ROW 4 (LOW) = -30.0 PSIA;  
836 26E6 LET (ULLAGE) ROW 4 (HIGH) = 50.0 PSIA;  
837 26F2 LET (ULLAGE) ROW 5 (LOW) = -30.0 PSIG;  
838 26F8 LET (ULLAGE) ROW 5 (HIGH) = 30.0 PSIG;  
839 26FE LET (ULLAGE) ROW 6 (LOW) = -30.0 PSIA;  
840 2705 LET (ULLAGE) ROW 6 (HIGH) = 50.0 PSIA;

841 2708 SET <V41K0075XL \$MPS SC 1/PT SENS ELECT PWR ON CMD\$>  
<V41K0076XL \$MPS SC 2/PT SENS ELECT PWR ON CMD\$>  
<V41K0077XL \$MPS SC 3/PT SENS ELECT PWR ON CMD\$> TO OFF;

842 2723 SET <V41K0050NL \$MPS ALL FLOW CONTROL CHECKOUT ARMS>  
<V41K0051NL \$MPS ALL FLOW CONTROL CHECKOUT LO\$>  
<V41K0052NL \$MPS E-1 FLOW CONTROL CHECKOUT HI\$>  
<V41K0053NL \$MPS E-2 FLOW CONTROL CHECKOUT HI\$>  
<V41K0054NL \$MPS E-3 FLOW CONTROL CHECKOUT HI\$> TO OFF;

843 2745 END SEQUENCE;

844 274A END STATEMENT GROUPS FOR (TEST);

845 276D END SEQUENCE;

846 2771 ELSE

BEGIN SEQUENCE;

847 2773 LET (ULLAGE) ROW 1 (LOW) = -30.0 PSIG;  
848 2779 LET (ULLAGE) ROW 1 (HIGH) = 30.0 PSIG;  
849 277F LET (ULLAGE) ROW 2 (LOW) = -30.0 PSIA;  
850 2786 LET (ULLAGE) ROW 2 (HIGH) = 50.0 PSIA;  
851 278C LET (ULLAGE) ROW 3 (LOW) = -30.0 PSIG;  
852 2792 LET (ULLAGE) ROW 3 (HIGH) = 30.0 PSIG;  
853 2798 LET (ULLAGE) ROW 4 (LOW) = -30.0 PSIA;  
854 279E LET (ULLAGE) ROW 4 (HIGH) = 50.0 PSIA;  
855 27A4 LET (ULLAGE) ROW 5 (LOW) = -30.0 PSIG;  
856 27AA LET (ULLAGE) ROW 5 (HIGH) = 30.0 PSIG;  
857 27B0 LET (ULLAGE) ROW 6 (LOW) = -30.0 PSIA;  
858 27B6 LET (ULLAGE) ROW 6 (HIGH) = 50.0 PSIA;

859 27BC SET <V41K0075XL \$MPS SC 1/PT SENS ELECT PWR ON CMD\$>  
<V41K0076XL \$MPS SC 2/PT SENS ELECT PWR ON CMD\$>  
<V41K0077XL \$MPS SC 3/PT SENS ELECT PWR ON CMD\$> TO OFF;

860 27D4 SET <V41K0050NL \$MPS ALL FLOW CONTROL CHECKOUT ARMS>  
<V41K0051NL \$MPS ALL FLOW CONTROL CHECKOUT LO\$>  
<V41K0052NL \$MPS E-1 FLOW CONTROL CHECKOUT HI\$>  
<V41K0053NL \$MPS E-2 FLOW CONTROL CHECKOUT HI\$> TO OFF;

861 27F1 END SEQUENCE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT  
\$ SET ALL INDICATORS WHOSE MDM IS NOT POWERED TO THEIR CURRENT STATE \$

862 27F3 IF (MVDATA) = 1 THEN

BEGIN SEQUENCE;

863 27FA REPEAT SEQUENCE VARYING (TMP) FROM 1 TO 100;

864 2801 BEGIN SEQUENCE;

865 2803 IF (VALVE1) ROW (TMP) (NOPOWER) IS ON THEN

BEGIN SEQUENCE;

866 280D INHIBIT (VALVE1);

867 2811 ACTIVATE (VALVE1) ROW (TMP);

868 2816 READ (VALVE1) FUNCTIONS AND SAVE AS  
(VALVE1) (EXPECTED);

869 28EE END SEQUENCE;

870 28F0 END SEQUENCE;

871 28F8 ACTIVATE (VALVE1);

872 28FC REPEAT SEQUENCE VARYING (TMP) FROM 1 TO 8;

BEGIN SEQUENCE;

874 2905 IF (VALVE2) ROW (TMP) (NOPOWER) IS ON THEN

BEGIN SEQUENCE;

875 290F INHIBIT (VALVE2);

876 2913 ACTIVATE (VALVE2) ROW (TMP);

877 2918 READ (VALVE2) FUNCTIONS AND SAVE AS  
(VALVE2) (EXPECTED);

878 2937 END SEQUENCE;

879 2939 END SEQUENCE;

880 2941 ACTIVATE (VALVE2);

881 2945 END SEQUENCE;



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

882-2947 WAIT 1 SEC;

883-2946 VERIFY (VALVE1) FUNCTIONS ARE EQUAL TO (EXPECTED) ELSE

LET (ERROR) = 1;

884-2A33 VERIFY (VALVE2) FUNCTIONS ARE EQUAL TO (EXPECTED) ELSE

LET (ERROR) = 1;

885-2A60 VERIFY (VLLAGE) FUNCTIONS ARE BETWEEN (LOW) AND (HIGH) ELSE

LET (ERROR) = 1;

IF NO ERRORS, SAY SO AND CONTINUE. \$

886-2AA3 IF (ERROR) = 0 THEN

RECORD TEXT (VAEA6 NO VALVE CONFIGURATION ERRORS);

<GMT \$GREENWICH MEAN TIMES> FORMAT (NO FD DESCRIPTOR)

TO <CNLS=PP \$CONSOLE PRINTER PLOTTERS> <SPA=PRNTR \$SPA PRINTERS>;

887-2ADE ELSE

BEGIN SEQUENCE;

888-2AEO PERFORM SUBROUTINE (NEXT) (NEXTLINE);

889-2AF5 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

890-2B0B RECORD TEXT (VALVE CONFIGURATION ERRORS. REF PAGE=A)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B> LINE (NEXTLINE) COLUMN 32 YELLOW;

891-2B2C PERFORM SUBROUTINE (NEXT) (NEXTLINE);

892-2B41 RECORD TEXT (PRESS VERIFY AGAIN - PFPK2 OR)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B> LINE (NEXTLINE) COLUMN 32 YELLOW;

893-2B5E PERFORM SUBROUTINE (NEXT) (NEXTLINE);

894-2B73 RECORD TEXT (ERRORS=CONTINUE - PFPK5 TO CONTINUE.)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B> LINE (NEXTLINE) COLUMN 32 YELLOW;

895-2B94 RECORD TEXT

(VAEA6 - FD FD-DESCRIPTOR CURRENT STATE)

TO <PAGE-A \$DISPLAY APPLICATION PAGE A> YELLOW;

896-2B8E RECORD TEXT

(VAEA6 - FD FD-DESCRIPTOR CURRENT STATE)

TO <CNLS=PP \$CONSOLE PRINTER PLOTTERS> <SPA=PRNTR \$SPA PRINTERS>;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

~~\$ OUTPUT VALVE1 ERRORS.\$~~

897 2BEA VERIFY (VALVE1) FUNCTIONS ARE EQUAL TO (EXPECTED) ELSE

RECORD EXCEPTIONS TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> <CNLSL-PP \$CONSOLE PRINTER PLO  
TTERS\$> <SPA-PRNTR \$SPA PRINTERS\$>

AND LET (ERROR) = 1;

\$ OUTPUT VALVE2 ERRORS. \$

898 4089 VERIFY (VALVE2) FUNCTIONS ARE EQUAL TO (EXPECTED) ELSE

RECORD EXCEPTIONS TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> <CNLSL-PP \$CONSOLE PRINTER PLO  
TTERS\$> <SPA-PRNTR \$SPA PRINTERS\$>

AND LET (ERROR) = 1;

~~\$ OUTPUT ULLAGE PRESSURE ERRORS. \$~~

899 4251 VERIFY (ULLAGE) FUNCTIONS ARE BETWEEN (LOW) AND (HIGH) ELSE

RECORD EXCEPTIONS TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> <CNLSL-PP \$CONSOLE PRINTER PLO  
TTERS\$> <SPA-PRNTR \$SPA PRINTERS\$>

AND LET (ERROR) = 1;

900 43E8 LET (AGAIN) = 0;

901 43ED PERFORM SUBROUTINE (PPKON) 2;

902 4402 PERFORM SUBROUTINE (PPKON) 5;

903 4416 STEP 1100 CONTINUE;

904 4419 PERFORM SUBROUTINE (UPDATE);

905 441E IF (ICGO) = 0 THEN GOTO STEP 1100;

906 4426 IF (AGAIN) = 1 THEN

GOTO STEP 1000;

907 442E LET (ERRORCOL) = 1;

908 4433 END SEQUENCE;

909 4435 IF (TEST) = 37 THEN

BEGIN SEQUENCE;

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAE6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

910 4436 LET (SEQ) = 3;

911 4441 GOTO STEP 1070;

912 4444 END SEQUENCE;

913 4446 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

914 4450 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

915 4470 \$ GUTPUT THE PART OF TEST COMPLETED, AND THEN WAIT FOR CONTINUE TO BE  
PRESSED BEFORE GOING TO NEXT PART OF TEST. \$  
RECORD TEXT (PART OF TEST COMPLETED) , (SEQ)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 39 CYAN;

916 448E PERFORM SUBROUTINE (NEXT) (NEXTLINE);

917 44A3 RECORD TEXT (PRESS CONTINUE-PFK1 FOR NEXT SEQUENCE)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32 CYAN;

918 44C4 RECORD TEXT (VAE6), <GMT \$GREENWICH MEAN TIME\$> FORMAT (NO FD DESCRIPTOR),  
TEXT (PART OF TEST COMPLETED) , (SEQ)

TO <CN\$=PP \$CONSOLE PRINTER PLOTTERS\$> \$SPA=PRNTR \$SPA PRINTERS\$;

919 44FA PERFORM SUBROUTINE (NEXT) (NEXTLINE);

920 4510 LET (SEQ) = (SEQ) + 1;

921 4516 PERFORM SUBROUTINE (PFPKON) 1;

922 452A STEP 1130 CONTINUE;

923 4520 PERFORM SUBROUTINE (UPDATE);

924 4532 IF (ICGO) = 0 THEN GOTO STEP 1130;

925 453A IF (SEQ) = 3 THEN

BEGIN SEQUENCE;

IF (TEST) = 4 OR (TEST) = 6 OR (TEST) = 7 OR (TEST) = 10 OR

(TEST) = 12 OR (TEST) = 13 OR (TEST) = 16 OR (TEST) = 18

OR (TEST) = 22 THEN GOTO STEP 1000;

END SEQUENCE;

927 4573

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT  
928 4575 GOTO STEP 1010;

\$ EXCEPTION CONDITION ON REG OUT PRESSURE OUT OF BOUNDS. \$

929 4578 STEP 1600 CONTINUE;

930 457B INHIBIT FEP INTERRUPT CHECK FOR <V41P1605A1 \$MPS PNEU VLVS REG HE HE OUTLET PRESS\$>;

931 4584 READ <V41P1605A1 \$MPS PNEU VLVS REG HE HE OUTLET PRESS\$> AND SAVE AS (PRESS);

932 4590 IF (PRESS) IS LESS THAN 25 PSIA THEN

BEGIN SEQUENCE;

933 4599 CHANGE <V41P1605A1 \$MPS PNEU VLVS REG HE HE OUTLET PRESS\$> GOAL EXCEPTION CONDITION

HIGH LIMIT TO 25 PSIA LOW LIMIT TO LO;

934 45A8 MODIFY <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE 32 COLUMN 17 TO COLUMN 28 CYAN;

935 45B1 RECORD TEXT (VAEA6), <GMT \$GREENWICH MEAN TIMES\$> FORMAT (NO FD DESCRIPTOR),  
<V41P1605A1 \$MPS PNEU VLVS REG HE HE OUTLET PRESS\$>, TEXT (PRESSURE IN BOUNDS)  
TO <CNLSL-PP \$CONSOLE PRINTER PLOTTERS\$> <SPA-PRNTR \$SPA PRINTERS\$>;

FND SEQUENCE;

936 4618

ELSE

BEGIN SEQUENCE;

937 461C MODIFY <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE 32 COLUMN 17 TO COLUMN 28

RED;

938 461E CHANGE <V41P1605A1 \$MPS PNEU VLVS REG HE HE OUTLET PRESS\$> GOAL EXCEPTION CONDITION

HIGH LIMIT TO HI LOW LIMIT TO 25 PSIA;

939 4627 RECORD TEXT (VAEA6), <GMT \$GREENWICH MEAN TIMES\$> FORMAT (NO FD DESCRIPTOR),  
<V41P1605A1 \$MPS PNEU VLVS REG HE HE OUTLET PRESS\$>, TEXT (PRESSURE OUT OF BOUNDS)  
TO <CNLSL-PP \$CONSOLE PRINTER PLOTTERS\$> <SPA-PRNTR \$SPA PRINTERS\$>;

END SEQUENCE;

940 4636

941 469F ACTIVATE FEP INTERRUPT CHECK FOR <V41P1605A1 \$MPS PNEU VLVS REG HE HE OUTLET PRESS\$>;

942 46A1 ACTIVATE INTERRUPT PROCESSING ON THIS LEVEL AND RETURN;

943 46A9 \$ EXCEPTION CONDITION ON ACCUM PRESSURE OUT OF BOUNDS. \$

944 46AC STEP 1610 CONTINUE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

945 46AF INHIBIT FEP INTERRUPT CHECK FOR <V41P1650A1 \$MPS PNEU ACCUMULATOR PRESSURE\$>

946 46B7 READ <V41P1650A1 \$MPS PNEU ACCUMULATOR PRESSURE\$> AND SAVE AS (PRESS)?

947 46C3 IF (PRESS) IS LESS THAN 25 PSIA THEN

BEGIN SEQUENCE;

948 46CC CHANGE <V41P1650A1 \$MPS PNEU ACCUMULATOR PRESSURE\$> GOAL EXCEPTION CONDITION

HIGH LIMIT TO 25 PSIA LOW LIMIT TO 0;

949 46DB MODIFY <PAGE=0 \$DISPLAY APPLICATION PAGE 0\$> LINE 32 COLUMN 44 TO COLUMN 52 C-YAN;

950 46E4 RECORD TEXT (VAEA6); <GMT \$GREENWICH MEAN TIME\$> FORMAT (NO FD DESCRIPTOR);  
<V41P1650A1 \$MPS PNEU ACCUMULATOR PRESSURE\$>, TEXT (PRESSURE IN BOUNDS)  
TO <ENSL-PP \$CONSOLE PRINTER PLOTTERS\$> <SPA-PRNTR \$SPA PRINTERS\$>

951 474B END SEQUENCE;

952 474F ELSE

BEGIN SEQUENCE;

953 4751 MODIFY <PAGE=B \$DISPLAY APPLICATION PAGE B\$> LINE 32 COLUMN 44 TO COLUMN 52

RED;

954 475A CHANGE <V41P1650A1 \$MPS PNEU ACCUMULATOR PRESSURE\$> GOAL EXCEPTION CONDITION

HIGH LIMIT TO HI LOW LIMIT TO 25 PSIA;

955 4769 RECORD TEXT (VAEA6); <GMT \$GREENWICH MEAN TIME\$> FORMAT (NO FD DESCRIPTOR);  
<V41P1650A1 \$MPS PNEU ACCUMULATOR PRESSURE\$>, TEXT (PRESSURE OUT OF BOUNDS)  
TO <CNLS-PP \$CONSOLE PRINTER PLOTTERS\$> <SPA-PRNTR \$SPA PRINTERS\$>

956 47D2 END SEQUENCE;

957 47D4 ACTIVATE FEP INTERRUPT CHECK FOR <V41P1650A1 \$MPS PNEU ACCUMULATOR PRESSURE\$>

ACTIVATE INTERRUPT PROCESSING ON THIS LEVEL AND RETURN;

\$ CONTINUE LED HIT \$

950 47DF STEP 1620 CONTINUE;

960 47E2 TURN ON <PFPK1-L1 \$PFP KEY 1 LIGHT 1 DEFAULT\$> ;

961 47E9 CLEAR <LED1 \$LED 1 DEFAULT\$>;

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAE6 REV 77

IC

ISN-APDR EXPANDED SOURCE STATEMENT  
962 47ED INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFPK1 \$PFP KEY 1 DEFAULT\$>;

963 47F3 LET (ICG0) = 2;

964 47F8 TURN OFF <PFPK1-L1 \$PFP KEY 1 LIGHT 1 DEFAULT\$>  
<PFPK1-L2 \$PFP KEY 1 LIGHT 2 DEFAULT\$>;

965 4802 RECORD TEXT (VAE6), <GMT \$GREENWICH MEAN TIMES\$> FORMAT (NO FD DESCRIPTOR),  
TEXT( PFPK1: CONTINUE PRESSED)  
TO <CN\$PP \$CONSOLE PRINTER PLOTTER\$> <SPA-PRNTR \$SPA PRINTERS\$>;

966 4835 ACTIVATE INTERRUPT PROCESSING ON THIS LEVEL AND RETURN;

\$ VERIFY AGAIN PFPK LED HIT \$

967 4838 STEP 1630 CONTINUE;

968 4838 TURN ON <PFPK2-L1 \$PFP KEY 2 LIGHT 1 DEFAULT\$>;

969 4842 LET (AGAIN) = 1;

970 4847 RECORD TEXT (VAE6), <GMT \$GREENWICH MEAN TIMES\$> FORMAT (NO FD DESCRIPTOR),  
TEXT( PFPK2: VERIFY AGAIN PRESSED)  
TO <CN\$PP \$CONSOLE PRINTER PLOTTER\$> <SPA-PRNTR \$SPA PRINTERS\$>;

971 487C GOTO STEP 1645;

972 487F STEP 1640 CONTINUE;

\$ ERRORS = CONTINUE PFPK LED HIT. \$

973 4893 TURN ON <PFPK3-L1 \$PFP KEY 3 LIGHT 1 DEFAULT\$>;

974 488A RECORD TEXT (VAE6), <GMT \$GREENWICH MEAN TIMES\$> FORMAT (NO FD DESCRIPTOR),  
TEXT( PFPK3: ERRORS - CONTINUE PRESSED)  
TO <CN\$PP \$CONSOLE PRINTER PLOTTER\$> <SPA-PRNTR \$SPA PRINTERS\$>;

975 48C2 STEP 1645 CONTINUE;

976 48C5 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFPK2 \$PFP KEY 2 DEFAULT\$> <PFPK5 \$PFP KEY 5 DE  
FAULT\$>;

977 48C0 CLEAR <LED2 \$LED 2 DEFAULT\$> <LED5 \$LED 5 DEFAULT\$>;

978 48D2 LET (ICG0) = 2;

979 48D7 TURN OFF <PFPK2-L1 \$PFP KEY 2 LIGHT 1 DEFAULT\$>  
<PFPK2-L2 \$PFP KEY 2 LIGHT 2 DEFAULT\$>  
<PFPK5-L1 \$PFP KEY 5 LIGHT 1 DEFAULT\$>  
<PFPK5-L2 \$PFP KEY 5 LIGHT 2 DEFAULT\$>;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
980 48E2 ACTIVATE INTERRUPT PROCESSING ON THIS LEVEL AND RETURN;

981 48E5 STEP 1650 CONTINUE;

\$ ABORT CURRENT TEST PFPK KEY HIT. \$

982 48E8 TURN ON <PFPK4-L1 \$PFP KEY 4 LIGHT 1 DEFAULTS> ;

983 48EF RECORD TEXT (VAEA6), <GMT \$GREENWICH MEAN TIMES> FORMAT (NO FD DESCRIPTOR),  
TEXT<PFPK4: ABORT-CURRENT TEST PRESSED>  
TO <CNLSL-PP \$CONSOLE PRINTER PLOTTERS> <SPA-PRNTR \$SPA PRINTERS>;

984 4928 CLEAR <LED1 \$LED 1 DEFAULTS> <LED2 \$LED 2 DEFAULTS> <LEDS \$LED 5 DEFAULTS>;

985 492E TURN OFF <PFPK1-L1 \$PFP KEY 1 LIGHT 1 DEFAULTS>  
<PFPK1-L2 \$PFP KEY 1 LIGHT 2 DEFAULTS>  
<PFPK2-L1 \$PFP KEY 2 LIGHT 1 DEFAULTS>  
<PFPK2-L2 \$PFP KEY 2 LIGHT 2 DEFAULTS>  
<PFPK5-L1 \$PFP KEY 5 LIGHT 1 DEFAULTS>  
<PFPK5-L2 \$PFP KEY 5 LIGHT 2 DEFAULTS>  
<PFPK6-L1 \$PFP KEY 6 LIGHT 1 DEFAULTS> ;

986 493C INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFPK1 \$PFP KEY 1 DEFAULTS>  
<PFPK2 \$PFP KEY 2 DEFAULTS> <PFPK5 \$PFP KEY 5 DEFAULTS>;

987 4946 SET <V4TK1156XL \$MPS E1 HE ISO VLV B (LV2) OP CMD AS>  
<V4TK1157XL \$MPS E1 HE ISO VLV B (LV2) OP CMD BS>  
<V4TK1162XL \$MPS E1 HE INTCN IN (LV59) OP CMD AS>  
<V4TK1163XL \$MPS E1 HE INTCN IN (LV59) OP CMD BS>  
<V4TK1256XL \$MPS F2 HE ISO VLV B (LV4) OP CMD AS>  
<V4TK1257XL \$MPS E2 HE ISO VLV B (LV4) OP CMD BS>  
<V4TK1262XL \$MPS E2 HE INTCN IN (LV61) OP CMD AS>  
<V4TK1263XL \$MPS E2 HE INTCN IN (LV61) OP CMD BS>  
<V4TK1356XL \$MPS E3 HE ISO VLV B (LV6) OP CMD AS>  
<V4TK1357XL \$MPS E3 HE ISO VLV B (LV6) OP CMD BS>  
<V4TK1362XL \$MPS E3 HE INTCN IN (LV63) OP CMD AS>  
<V4TK1363XL \$MPS E3 HE INTCN IN (LV63) OP CMD BS>  
<V4TK1411XL \$MPS LH2 TOPPING VLV (PVT5) OP CMD AS>  
<V4TK1435XL \$MPS LH2 MANF REPRSS 1(LV42) OP CMD AS>  
<V4TK1437XL \$MPS LH2 MANF REPRSS 2(LV43) OP CMD AS>  
<V4TK1535XL \$MPS L02 MANF REPRSS 1(LV40) OP CMD AS>  
<V4TK1537XL \$MPS L02 MANF REPRSS 2(LV41) OP CMD AS>  
<V4TK0050NL \$MPS ALL FLOW CONTROL CHECKOUT ARMS>  
<V4TK0051NL \$MPS ALL FLOW CONTROL CHECKOUT LOS>  
<V4TK0052NL \$MPS E-1 FLOW CONTROL CHECKOUT HIS>  
<V4TK0053NL \$MPS E-2 FLOW CONTROL CHECKOUT HIS>  
<V4TK0075XL \$MPS SC 1/PT SENS ELECT PWR ON CMD AS>  
<V4TK0076XL \$MPS SC 2/PT SENS ELECT PWR ON CMD AS>  
<V4TK0077XL \$MPS SC 3/PT SENS ELECT PWR ON CMD AS>  
<V4TK1607XL \$MPS PNEU HE ISO VLV 1 (LV7) OP CMD AS>  
<V4TK1608XL \$MPS PNEU HE ISO VLV 2 (LV8) OP CMD AS> TO OFF;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

988 49D2 PERFORM SUBROUTINE (PPFKON) 6;

989 49E6 PERFORM SUBROUTINE (NVFRT) 1;

990 49FA IF (TERMPGM) = 0 THEN

BEGIN SEQUENCE;

991 4A02 LET (TEST) = (TEST) - 1;

992 4A08 IF (TEST) IS GREATER THAN OR EQUAL TO 37 THEN

LET (TEST) = 0;

993 4A13 IF (TEST) IS LESS THAN 0 THEN

LET (TEST) = 0;

994 4A1E END SEQUENCE;

995 4A20 LET (TERMPGM) = 0;

996 4A25 PERFORM SUBROUTINE (CPAGE);

997 4A2A PERFORM SUBROUTINE (NEXT) (NEXTLINE);

998 4A3F RECORD TEXT (ABORTING CURRENT TEST)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 36 RED;

999 4A58 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

1000 4A6D RECORD TEXT (RETURNING TO MONITOR LOOP)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 36 YELLOW;

1001 4A89 RECORD TEXT (VAEA6), <GMT \$GREENWICH MEAN TIME\$> FORMAT (NO FD DESCRIPTOR),  
TEXT<ABORTING CURRENT TEST> TO <CNCL-PP \$CONSOLE PRINTER PLOTTERS\$> <SPA-PRNTR \$SPA

PRINTER\$>;

1002 4ABB TURN OFF <PPFK4-L1 \$PEP KEY 4 LIGHT 1 DEFAULTS\$> ;

1003 4AC2 ACTIVATE INTERRUPT PROCESSING ON THIS LEVEL;

1004 4AC5 GOTO STEP 1020;

\$ PFK11, REFRESH HIT. \$

1005 4AC8 1660 CONTINUE;



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

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IC
ISN ADDR EXPANDED SOURCE STATEMENT
1006 4AEB CLEAR <PAGE-B $DISPLAY APPLICATION PAGE-B$$>
1007 4ACF DISPLAY SKELETON (VD52) TO <PAGE-B $DISPLAY APPLICATION PAGE-B$$>
1008 4AD4 PERFORM SUBROUTINE (CPAGE);
1009 4ADD ASSIGN (UFLAG) = ON;
1010 4ADE ASSIGN (UFLAG2) = OFF;
1011 4AE3 IF (IDLE) = OFF THEN
PERFORM SUBROUTINE (NVERT);
1012 4AFC READ <V41P1605A1 $MPS PNEU VLVS REG HE OUTLET PRESS$> AND SAVE AS (PRESS);
1013 4B09 IF (PRESS) IS LESS THAN 25 PSIA THEN
MODIFY <PAGE-B $DISPLAY APPLICATION PAGE-B$$> LINE 32 COLUMN 17 TO COLUMN 28 CYAN;
ELSE
MODIFY <PAGE-B $DISPLAY APPLICATION PAGE-B$$> LINE 32 COLUMN 17 TO COLUMN 28
RED;
1015 4B24 READ <V41P160A1 $MPS PNEU ACCUMULATOR PRESSURE$> AND SAVE AS (PRESS);
1016 4B30 IF (PRESS) IS LESS THAN 25 PSIA THEN
MODIFY <PAGE-B $DISPLAY APPLICATION PAGE-B$$> LINE 32 COLUMN 44 TO COLUMN 52 CYAN;
ELSE
MODIFY <PAGE-B $DISPLAY APPLICATION PAGE-B$$> LINE 32 COLUMN 44 TO COLUMN 52
RED;
1018 4B4B IF (PNEU TEST) = 1 AND (PTEST CLR) = 1 THEN
BEGIN SEQUENCE;
1019 4B54 LET (PNEU TEST) = 0;
1020 4B59 LET (PTEST CLR) = 0;
1021 4B5E ACTIVATE INTERRUPT PROCESSING ON THIS LEVEL;
1022 4B61 GOTO STEP 1020;

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VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
1023 4B64 END SEQUENCE;

1024 4B66 ACTIVATE INTERRUPT PROCESSING ON THIS LEVEL AND RETURN;

\$ PFK1, RSYS TRANSFER OF <V41K1535XL> AND <V41K1537XL> TO C4 \$

1025 4B69 STEP 1665 CONTINUE;

1026 4B6C CHANGE <V41K1535XL \$MPS L02 MANF REPRSS 1(LV40) OP CMD\$> <V41K1537XL \$MPS L02 MANF REPRSS 2(LV41) OP CMD\$> RESPONSIBLE CONSOLE

TO <C4 \$C4 LOG CON-NOT VALID IN RSYS FLD\$>;

1027 4B78 GOTO STEP 998;

\$ PFK2, RSYS TRANSFER OF <V41K1535XL> AND <V41K1537XL> TO C3 \$

1028 4B7B STEP 1668 CONTINUE;

1029 4B7E CHANGE <V41K1535XL \$MPS L02 MANF REPRSS 1(LV40) OP CMD\$> <V41K1537XL \$MPS L02 MANF REPRSS 2(LV41) OP CMD\$> RESPONSIBLE CONSOLE

TO <C3 \$C3 LOG CON-NOT VALID IN RSYS FLD\$>;

1030 4B8B GOTO STEP 998;

\$ PFK3, V1161 BUS DROP TEST HIT. \$

1031 4B8E STEP 1670 CONTINUE;

1032 4B91 LET (TEST IS CIG OR SCAN) = 1;

1033 4B96 RECORD NEXT TEXT (PFK3: BUS REDUNDANCY TEST CHOSEN)

TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> YELLOW TO <CNLS-PP \$CONSOLE PRINTER PLOTTER\$> <SP A-PRNTR \$SPA PRINTER\$>;

1034 4BBB INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFK1-PA \$PROG. FUNCTION KEY 1 PAGE-A DEFLT\$>;

1035 4BC2 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFK2-PA \$PROG. FUNCTION KEY 2 PAGE-A DEFLT\$>;

1036 4BC9 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFK3-PA \$PROG. FUNCTION KEY 3 PAGE-A DEFLT\$>;

1037 4BD0 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFK4-PA \$PROG. FUNCTION KEY 4 PAGE-A DEFLT\$>;

1038 4BD7 ACTIVATE INTERRUPT PROCESSING ON THIS LEVEL AND RETURN;

\$ PFK4, CIG/SCAN RE TEST HIT. \$

1039 4BD9 STEP 1680 CONTINUE;

1040 4BD0 LET (TEST IS CIG OR SCAN) = 2;

1041 4BE2 RECORD NEXT TEXT (PFK4: ELECTRICAL CONNECTOR RE TEST CHOSEN)

TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> YELLOW <CNLS-PP \$CONSOLE PRINTER PLOTTER\$> <SP

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

IC  
1042 4C0C INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFK1-PA \$PROG. FUNCTION KEY 1 PAGE-A DEFLT\$>;  
1043 4C13 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFK2-PA \$PROG. FUNCTION KEY 2 PAGE-A DEFLT\$>;  
1044 4C1A INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFK3-PA \$PROG. FUNCTION KEY 3 PAGE-A DEFLT\$>;  
1045 4C21 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFK4-PA \$PROG. FUNCTION KEY 4 PAGE-A DEFLT\$>;  
1046 4C28 ACTIVATE INTERRUPT PROCESSING ON THIS LEVEL AND RETURN;  
\$ PFK5, HE ISO'S MATED HIT. \$  
1047 4C2B STEP 1690 CONTINUE;  
1048 4C2E LET (HE ISOS MATED) = 1;  
1049 4C33 RECORD NEXT TEXT  
(PFK5: ANY OF THE HELIUM ISO'S ARE MATED CHOSEN)  
TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> YELLOW TO <CNLS-PP \$CONSOLE PRINTER PLOTTERS\$> <SP  
A-PRNTR \$SPA PRINTERS\$>;  
1050 4C5F INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFK5-PA \$PROG. FUNCTION KEY 5 PAGE-A DEFLT\$>;  
1051 4C66 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFK6-PA \$PROG. FUNCTION KEY 6 PAGE-A DEFLT\$>;  
1052 4C6D DELAY 1 SEC;  
1053 4C72 ACTIVATE INTERRUPT PROCESSING ON THIS LEVEL AND RETURN;  
\$ PFK6, HE ISO'S NOT MATED HIT. \$  
1054 4C75 STEP 1700 CONTINUE;  
1055 4C78 LET (HE ISOS MATED) = 2;  
1056 4C7D RECORD NEXT TEXT  
(PFK6: ALL OF THE HELIUM ISO'S ARE DEMATED CHOSEN)  
TO <PAGE-A \$DISPLAY APPLICATION PAGE A\$> YELLOW TO <CNLS-PP \$CONSOLE PRINTER PLOTTERS\$> <SP  
A-PRNTR \$SPA PRINTERS\$>;  
1057 4CAB INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFK5-PA \$PROG. FUNCTION KEY 5 PAGE-A DEFLT\$>;  
1058 4CB2 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFK6-PA \$PROG. FUNCTION KEY 6 PAGE-A DEFLT\$>;  
1059 4CB9 DELAY 1 SEC;  
1060 4CBE ACTIVATE INTERRUPT PROCESSING ON THIS LEVEL AND RETURN;  
\$ STEP 1010 CAN BE ENTERED FROM ONE OF TWO PLACES. THE FIRST IS THAT  
THE CONTINUE BUTTON IS HIT DURING A IDLE LOOP, WHICH TAKES THE  
OPERATOR TO THE NEXT TEST. THE SECOND IS WHEN SEQUENCE 1 IS  
FINISHED, FOR EXAMPLE, AND THEN IT HAS TO DO SEQUENCE 2, IT GOES  
HERE TO START THAT SEQUENCE. \$  
1061 4CC1 STEP 1010 CONTINUE;  
1062 4CC4 PERFORM SURROUTINE (INIT TAB);

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

1063 4C60 IF (TEST) = 1 THEN GOTO STEP 2015;

1064 4C01 IF (TEST) = 2 THEN GOTO STEP 2025;

1065 4C09 IF (TEST) = 3 THEN GOTO STEP 2035;

1066 4CE1 IF (TEST) = 4 THEN GOTO STEP 2045;

1067 4CE9 IF (TEST) = 5 THEN GOTO STEP 2055;

1068 4CF1 IF (TEST) = 6 THEN GOTO STEP 2065;

1069 4CF9 IF (TEST) = 7 THEN GOTO STEP 2075;

1070 4D02 IF (TEST) = 8 THEN GOTO STEP 2085;

1071 4D0A IF (TEST) = 9 THEN GOTO STEP 2095;

1072 4D12 IF (TEST) = 10 THEN GOTO STEP 2105;

1073 4D1A IF (TEST) = 11 THEN GOTO STEP 2115;

1074 4D22 IF (TEST) = 12 THEN GOTO STEP 2125;

1075 4D2A IF (TEST) = 13 THEN GOTO STEP 2135;

1076 4D32 IF (TEST) = 14 THEN GOTO STEP 2145;

1077 4D3A IF (TEST) = 15 THEN GOTO STEP 2155;

1078 4D42 IF (TEST) = 16 THEN GOTO STEP 2165;

1079 4D4A IF (TEST) = 17 THEN GOTO STEP 2175;

1080 4D52 IF (TEST) = 18 THEN GOTO STEP 2185;

1081 4D5A IF (TEST) = 19 THEN GOTO STEP 2195;

1082 4D62 IF (TEST) = 20 THEN GOTO STEP 2205;

1083 4D6A IF (TEST) = 21 THEN GOTO STEP 2215;

1084 4D72 IF (TEST) = 22 THEN GOTO STEP 2225;

1085 4D7A IF (TEST) = 23 THEN GOTO STEP 2235;

1086 4D83 IF (TEST) = 24 THEN GOTO STEP 2245;

1087 4D80 IF (TEST) = 25 THEN GOTO STEP 2255;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

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1088 4D93  EXPANDED SOURCE STATEMENT
1088 4D93  IF (TEST) = 26 THEN GOTO STEP 2265;
1089 4D98  IF (TEST) = 27 THEN GOTO STEP 2275;
1090 4DA3  IF (TEST) = 28 THEN GOTO STEP 2285;
1091 4DAB  IF (TEST) = 29 THEN GOTO STEP 2295;
1092 4DR3  IF (TEST) = 30 THEN GOTO STEP 2305;
1093 4D8B  IF (TEST) = 31 THEN GOTO STEP 2315;
1094 4DC3  IF (TEST) = 32 THEN GOTO STEP 2325;
1095 4DCB  IF (TEST) = 33 THEN GOTO STEP 2335;
1096 4DD3  IF (TEST) = 34 THEN GOTO STEP 2345;
1097 4DDB  IF (TEST) = 35 THEN GOTO STEP 2355;
1098 4DE3  IF (TEST) = 36 THEN GOTO STEP 2365;
1099 4DEB  IF (TEST) = 37 THEN GOTO STEP 2375;
1100 4DF3  PERFORM SUBROUTINE (NEXT) (NEXTLINE);
1101 4E09  RECORD TEXT (TEST NUMBER INCORRECT)

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TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXTLINE) COLUMN 32;

1102 4E22 GOTO STEP 1020;

\$ START OF ARRAY ASSIGNMENTS FOR TESTS. \$

\$INSERT 2\$

1103 4E25 STEP 2010 CONTINUE;

1104 4E28 LET (SEQ) = 1;

1105 4E2D LET (TEST) = 1;

1106 4E32 STEP 2015 CONTINUE;

1107 4E35 LET (EPDC BUS) ROW 1 (LOW) = -1V;

1108 4E3B LET (EPDC BUS) ROW 1 (HIGH) = 24V;

1109 4E41 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

IC  
 VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

ISN	ADDR	EXPANDED SOURCE STATEMENT
1110	4E48	ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;
1111	4E49	ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;
1112	4E52	ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;
1113	4E57	ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;
1114	4E5C	ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;
1115	4E61	ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;
1116	4E66	ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;
1117	4E6B	ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;
1118	4E70	ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;
1119	4E75	ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;
1120	4E7A	ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;
1121	4E7F	ASSIGN (SWITCH) ROW 19 (EXPECTED) = ON;
1122	4E85	ASSIGN (SWITCH) ROW 21 (EXPECTED) = ON;
1123	4E8A	ASSIGN (SWITCH) ROW 23 (EXPECTED) = ON;
1124	4E8F	ASSIGN (SWITCH) ROW 25 (EXPECTED) = ON;
1125	4E94	ASSIGN (VALVE1) ROW 2 (EXPECTED) = ON;
1126	4E99	ASSIGN (VALVE1) ROW 4 (EXPECTED) = ON;
1127	4E9E	ASSIGN (VALVE1) ROW 6 (EXPECTED) = ON;
1128	4EA3	ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;
1129	4EA8	ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;
1130	4EAD	ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;
1131	4EB2	ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;
1132	4EB7	ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;
1133	4EBC	ASSIGN (VALVE1) ROW 24 (EXPECTED) = ON;
1134	4EC1	ASSIGN (VALVE1) ROW 26 (EXPECTED) = ON;
1135	4EC6	ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;
1136	4ECB	ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;
1137	4ED0	ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;
1138	4ED5	ASSIGN (VALVE1) ROW 38 (EXPECTED) = ON;
1139	4EDA	ASSIGN (VALVE1) ROW 68 (EXPECTED) = ON;
1140	4EDF	ASSIGN (VALVE1) ROW 72 (EXPECTED) = ON;
1141	4EE4	ASSIGN (VALVE1) ROW 74 (EXPECTED) = ON;
1142	4EE9	ASSIGN (VALVE1) ROW 86 (EXPECTED) = ON;
1143	4EEE	ASSIGN (VALVE1) ROW 95 (EXPECTED) = ON;
1144	4EF3	ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;
1145	4EF8	ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;
1146	4FFD	ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;
1147	4F03	ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;
1148	4F08	ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;
1149	4F0D	ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;
1150	4F12	ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;
1151	4F17	ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;
1152	4F1C	ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;
1153	4F21	ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;
1154	4F26	ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;
1155	4F2B	ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

REV 77

VAEA6

EXPANDED SOURCE LISTING

REV 77

GOAL LANGUAGE PROCESSOR

REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

1157 4F32 IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

- 1158 4F39 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;
- 1159 4F3E ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;
- 1160 4F43 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;
- 1161 4F48 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;
- 1162 4F4D ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;
- 1163 4F52 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;
- 1164 4F57 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;
- 1165 4F5C ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;
- 1166 4F61 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;
- 1167 4F66 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;
- 1168 4F6B ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;
- 1169 4F70 ASSIGN (SWITCH) ROW 20 (EXPECTED) = ON;
- 1170 4F75 ASSIGN (SWITCH) ROW 22 (EXPECTED) = ON;
- 1171 4F7A ASSIGN (SWITCH) ROW 36 (EXPECTED) = ON;
- 1172 4F7F ASSIGN (VALVE1) ROW 1 (EXPECTED) = ON;
- 1173 4F85 ASSIGN (VALVE1) ROW 3 (EXPECTED) = ON;
- 1174 4F8A ASSIGN (VALVE1) ROW 5 (EXPECTED) = ON;
- 1175 4F8F ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;
- 1176 4F94 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;
- 1177 4F99 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;
- 1178 4F9E ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;
- 1179 4FA3 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;
- 1180 4FAB ASSIGN (VALVE1) ROW 23 (EXPECTED) = ON;
- 1181 4FAD ASSIGN (VALVE1) ROW 25 (EXPECTED) = ON;
- 1182 4FB2 ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;
- 1183 4FB7 ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;
- 1184 4FBC ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;
- 1185 4FC1 ASSIGN (VALVE1) ROW 61 (EXPECTED) = ON;
- 1186 4FC6 ASSIGN (VALVE1) ROW 65 (EXPECTED) = ON;
- 1187 4FCB ASSIGN (VALVE1) ROW 66 (EXPECTED) = ON;
- 1188 4FD0 ASSIGN (VALVE1) ROW 76 (EXPECTED) = ON;
- 1189 4FD5 ASSIGN (VALVE1) ROW 88 (EXPECTED) = ON;
- 1190 4FDA ASSIGN (VALVE1) ROW 95 (EXPECTED) = ON;
- 1191 4FDF ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;
- 1192 4FE4 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;
- 1193 4FE9 ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;
- 1194 4FEE ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;
- 1195 4FF3 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;
- 1196 4FF8 ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;
- 1197 4FFD ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;
- 1198 5003 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;
- 1199 5008 ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;
- 1200 500D ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;
- 1201 5012 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;
- 1202 5017 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

1203 501C END SFRUENCE;

1204 501E IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

1205 502C ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;

1206 5031 ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;

1207 5036 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;

1208 5038 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;

1209 5040 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;

1210 5045 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;

1211 504A ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;

1212 504F ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;

1213 5054 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;

1214 5059 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;

1215 505E ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;

1216 5063 END SEQUENCE;

1217 5065 GOTO STEP 1000;

1218 5068 STEP 2020 CONTINUE;

1219 506B LET (SEQ) = 1;

1220 5070 LET (TEST) = 2;

1221 5075 STEP 2025 CONTINUE;

1222 5078 LET (EPDC BUS) ROW 1 (LOW) = -1V;

1223 507E LET (EPDC BUS) ROW 1 (HIGH) = 24V;

1224 5085 LET (EPDC BUS) ROW 2 (LOW) = -1V;

1225 508B LET (EPDC BUS) ROW 2 (HIGH) = 24V;

1226 5091 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

1227 5098 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;

1228 509D ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;

1229 50A2 ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;

1230 50A7 ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;

1231 50AC ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;

1232 50B1 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;

1233 50B6 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;

1234 50BB ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

1235 50C0	ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;
1236 50E5	ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;
1237 50CA	ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;
1238 50F6	ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;
1239 50D4	ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;
1240 50D9	ASSIGN (SWITCH) ROW 19 (EXPECTED) = ON;
1241 50DE	ASSIGN (SWITCH) ROW 21 (EXPECTED) = ON;
1242 50E3	ASSIGN (SWITCH) ROW 23 (EXPECTED) = ON;
1243 50E8	ASSIGN (VALVE1) ROW 4 (EXPECTED) = ON;
1244 50ED	ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;
1245 50F2	ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;
1246 50F7	ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;
1247 50F6	ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;
1248 5102	ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;
1249 5107	ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;
1250 510C	ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;
1251 5111	ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;
1252 5116	ASSIGN (VALVE1) ROW 38 (EXPECTED) = ON;
1253 5118	ASSIGN (VALVE1) ROW 68 (EXPECTED) = ON;
1254 5120	ASSIGN (VALVE1) ROW 86 (EXPECTED) = ON;
1255 5125	ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;
1256 512A	ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;
1257 512F	ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;
1258 5134	ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;
1259 5139	ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;
1260 513E	ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;
1261 5143	ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;
1262 5148	ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;
1263 514D	ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;
1264 5152	ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

1265 5157 END SEQUENCE;

1266 5159 IF (SER) = 2 THEN

BEGIN SEQUENCE;

1267 5160	ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;
1268 5165	ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;
1269 516A	ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;
1270 516F	ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;
1271 5174	ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;
1272 5179	ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;
1273 517E	ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;
1274 5184	ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;
1275 5189	ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;
1276 518E	ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;
1277 5193	ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;
1278 5198	ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

IC REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV C 77

ISN ADDR	EXPANDED SOURCE STATEMENT
1279 519D	ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;
1280 51A2	ASSIGN (SWITCH) ROW 20 (EXPECTED) = ON;
1281 51A7	ASSIGN (SWITCH) ROW 22 (EXPECTED) = ON;
1282 51AC	ASSIGN (SWITCH) ROW 24 (EXPECTED) = ON;
1283 51B1	ASSIGN (VALVE1) ROW 3 (EXPECTED) = ON;
1284 51B6	ASSIGN (VALVE1) ROW 5 (EXPECTED) = ON;
1285 51B8	ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;
1286 51C0	ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;
1287 51C5	ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;
1288 51CA	ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;
1289 51CF	ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;
1290 51D4	ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;
1291 51D9	ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;
1292 51DE	ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;
1293 51E3	ASSIGN (VALVE1) ROW 61 (EXPECTED) = ON;
1294 51E8	ASSIGN (VALVE1) ROW 88 (EXPECTED) = ON;
1295 51E9	ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;
1296 51F2	ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;
1297 51F7	ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;
1298 51FC	ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;
1299 5202	ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;
1300 5207	ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;
1301 520C	ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;
1302 5211	ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;
1303 5216	ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;
1304 521B	ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;
1305 5220	END SEQUENCE;
1306 5222	IF (SEQ) = 3 OR (SEQ) = 4 THEN
	BEGIN SEQUENCE;
1307 5230	ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;
1308 5235	ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;
1309 523A	ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;
1310 523F	ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;
1311 5244	ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;
1312 5249	ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;
1313 524E	ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;
1314 5253	ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;
1315 5258	ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;
1316 525D	ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;
1317 5262	ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;
1318 5267	ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;
1319 526C	ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;
1320 5271	ASSIGN (SWITCH) ROW 24 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
1321 5276 END SEQUENCE;

1322 5278 GOTO STEP 1000;

1323 527B STEP 2030 CONTINUE;

1324 527E LET (SEQ) = 1;

1325 5284 LET (TEST) = 3;

1326 5289 STEP 2035 CONTINUE;

1327 528C LET (EPDC BUS) ROW 1 (LOW) = -1V;  
1328 5292 LET (EPDC BUS) ROW 1 (HIGH) = 24V;  
1329 5298 LET (EPDC BUS) ROW 2 (LOW) = -1V;  
1330 529E LET (EPDC BUS) ROW 2 (HIGH) = 24V;  
1331 52A4 LET (EPDC BUS) ROW 3 (LOW) = -1V;  
1332 52AA LET (EPDC BUS) ROW 3 (HIGH) = 24V;

1333 52B0 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

1334 52B7 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
1335 52BC ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;  
1336 52C1 ASSIGN (SWITCH) ROW 21 (NOPOWER) = ON;  
1337 52C6 ASSIGN (SWITCH) ROW 22 (NOPOWER) = ON;  
1338 52CB ASSIGN (SWITCH) ROW 23 (NOPOWER) = ON;  
1339 52D0 ASSIGN (SWITCH) ROW 24 (NOPOWER) = ON;  
1340 52D5 ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;  
1341 52DA ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;  
1342 52DF ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;  
1343 52E4 ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;

1344 52E9 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
1345 52EE ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
1346 52F3 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
1347 52F8 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
1348 52FD ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
1349 5303 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
1350 5308 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
1351 530D ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
1352 5312 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
1353 5317 ASSIGN (SWITCH) ROW 19 (EXPECTED) = ON;

1354 531C ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;  
1355 5321 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
1356 5326 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;  
1357 532B ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;  
1358 5330 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;  
1359 5335 ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

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ISN ADDR EXPANDED SOURCE STATEMENT
1360 533A ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;
1361 533F ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;
1362 5344 ASSIGN (VALVE1) ROW 68 (EXPECTED) = ON;
1363 5349 ASSIGN (VALVE1) ROW 86 (EXPECTED) = ON;
1364 534E ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;
1365 5353 ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;
1366 5358 ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;
1367 535D ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;
1368 5362 ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;
1369 5367 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;
1370 536C ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;
1371 5371 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

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END SEQUENCE;

IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

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1374 537F ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;
1375 5385 ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;
1376 538A ASSIGN (SWITCH) ROW 21 (NOPOWER) = ON;
1377 538F ASSIGN (SWITCH) ROW 22 (NOPOWER) = ON;
1378 5394 ASSIGN (SWITCH) ROW 23 (NOPOWER) = ON;
1379 5399 ASSIGN (SWITCH) ROW 24 (NOPOWER) = ON;
1380 539E ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;
1381 53A3 ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;
1382 53A8 ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;
1383 53AD ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;

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1384 53B2 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;
1385 53B7 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;
1386 53BC ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;
1387 53C1 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;
1388 53C6 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;
1389 53CB ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;
1390 53D0 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;
1391 53D5 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;
1392 53DA ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;
1393 53DF ASSIGN (SWITCH) ROW 20 (EXPECTED) = ON;

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1394 53E4 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;
1395 53E9 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;
1396 53EE ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;
1397 53F3 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;
1398 53F8 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;
1399 53FD ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;
1400 5403 ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;
1401 5408 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;
1402 540D ASSIGN (VALVE1) ROW 88 (EXPECTED) = ON;
1403 5412 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;

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VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
 1404 5417 ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;  
 1405 5418 ~~ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;~~  
 1406 5421 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;  
 1407 5426 ~~ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;~~  
 1408 5428 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;  
 1409 5430 ~~ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;~~  
 1410 5435 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

1411 543A FND SEQUENCE;

1412 543C IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

1413 544A ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
 1414 544F ~~ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;~~  
 1415 5454 ASSIGN (SWITCH) ROW 21 (NOPOWER) = ON;  
 1416 5459 ~~ASSIGN (SWITCH) ROW 22 (NOPOWER) = ON;~~  
 1417 545E ASSIGN (SWITCH) ROW 23 (NOPOWER) = ON;  
 1418 5463 ~~ASSIGN (SWITCH) ROW 24 (NOPOWER) = ON;~~  
 1419 5468 ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;  
 1420 546D ~~ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;~~  
 1421 5472 ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;  
 1422 5477 ~~ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;~~

1423 547C ~~ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;~~  
 1424 5482 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 1425 5487 ~~ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;~~  
 1426 548C ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
 1427 5491 ~~ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;~~  
 1428 5496 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
 1429 549B ~~ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;~~  
 1430 54A0 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
 1431 54A5 ~~ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;~~

1432 54AA END SEQUENCE;

1433 54AC GOTO STEP 1000;

1434 54AF STEP 2040 CONTINUE;

1435 54B2 LET (SEQ) = 1;

1436 54B7 LET (TEST) = 4;

1437 54BC STEP 2045 CONTINUE;

1438 54BF LET (EPDC BUS) ROW 2 (LOW) = -1V;

1439 54C5 LET (EPDC BUS) ROW 2 (HIGH) = 24V;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77

GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING

VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
1440 54CB IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

- 1441 54D2 ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;
- 1442 54D7 ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;
- 1443 54D6 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;
- 1444 54E1 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;
- 1445 54E6 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;
- 1446 54EB ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;
- 1447 54F0 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;
- 1448 54F5 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;
- 1449 54FA ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;
- 1450 54FF ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;
- 1451 5505 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;
- 1452 550A ASSIGN (SWITCH) ROW 19 (EXPECTED) = ON;
- 1453 550F ASSIGN (SWITCH) ROW 21 (EXPECTED) = ON;
- 1454 5514 ASSIGN (SWITCH) ROW 23 (EXPECTED) = ON;
- 1455 5519 ASSIGN (SWITCH) ROW 25 (EXPECTED) = ON;
- 1456 551E ASSIGN (VALVE1) ROW 2 (EXPECTED) = ON;
- 1457 5523 ASSIGN (VALVE1) ROW 4 (EXPECTED) = ON;
- 1458 5528 ASSIGN (VALVE1) ROW 6 (EXPECTED) = ON;
- 1459 552D ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;
- 1460 5532 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;
- 1461 5537 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;
- 1462 553C ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;
- 1463 5541 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;
- 1464 5546 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;
- 1465 554B ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;
- 1466 5550 ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;
- 1467 5555 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;
- 1468 555A ASSIGN (VALVE1) ROW 38 (EXPECTED) = ON;
- 1469 555F ASSIGN (VALVE1) ROW 67 (EXPECTED) = ON;
- 1470 5564 ASSIGN (VALVE1) ROW 68 (EXPECTED) = ON;
- 1471 5569 ASSIGN (VALVE1) ROW 73 (EXPECTED) = ON;
- 1472 556E ASSIGN (VALVE1) ROW 85 (EXPECTED) = ON;
- 1473 5573 ASSIGN (VALVE1) ROW 86 (EXPECTED) = ON;
- 1474 5578 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;
- 1475 557D ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;
- 1476 5583 ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;
- 1477 5588 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;
- 1478 558D ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;
- 1479 5592 ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;
- 1480 5597 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;
- 1481 559C ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;
- 1482 55A1 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;
- 1483 55A6 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

END SEQUENCE;

1484 55AB

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

1485 55A0 IF (SF0) = ? THEN

BEGIN SEQUENCE?

1486 55B4 ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON?

1487 55B9 ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON?

1488 55BE ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON?

1489 55C3 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON?

1490 55C8 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON?

1491 55C0 ASSIGN (SWITCH) ROW 8 (EXPECTED) = ON?

1492 55D2 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON?

1493 55D7 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON?

1494 55DC ASSIGN (SWITCH) ROW 14 (EXPECTED) = ON?

1495 55E1 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON?

1496 55E6 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON?

1497 55F8 ASSIGN (SWITCH) ROW 20 (EXPECTED) = ON?

1498 55F0 ASSIGN (SWITCH) ROW 22 (EXPECTED) = ON?

1499 55F5 ASSIGN (SWITCH) ROW 60 (EXPECTED) = ON?

1500 55FA ASSIGN (VALVE1) ROW 1 (EXPECTED) = ON?

1501 55FF ASSIGN (VALVE1) ROW 3 (EXPECTED) = ON?

1502 5605 ASSIGN (VALVE1) ROW 5 (EXPECTED) = ON?

1503 560A ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON?

1504 560F ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON?

1505 5614 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON?

1506 5619 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON?

1507 561E ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON?

1508 5623 ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON?

1509 5628 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON?

1510 562D ASSIGN (VALVE1) ROW 61 (EXPECTED) = ON?

1511 5632 ASSIGN (VALVE1) ROW 62 (EXPECTED) = ON?

1512 5637 ASSIGN (VALVE1) ROW 75 (EXPECTED) = ON?

1513 563C ASSIGN (VALVE1) ROW 87 (EXPECTED) = ON?

1514 5641 ASSIGN (VALVE1) ROW 88 (EXPECTED) = ON?

1515 5646 ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON?

1516 564B ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON?

1517 5650 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON?

1518 5655 ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON?

1519 565A ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON?

1520 565F ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON?

1521 5664 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON?

1522 5669 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON?

1523 566E END SEQUENCE?

1524 5670 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE?

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

1525 567E EXPANDED SOURCE STATEMENT  
ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;  
1526 5684 ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;

1527 5689 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
1528 568E ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
1529 5693 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
1530 5698 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
1531 5698 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
1532 56A2 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
1533 56A7 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;

1534 56AC END SEQUENCE;

1535 56AE GOTO STEP 1000;

1536 56B1 STEP 2050 CONTINUE;

1537 56B4 LET (SEQ) = 1;

1538 56B9 LET (TFST) = 5;

1539 56BE STEP 2055 CONTINUE;

1540 56C1 LET (EPDC BUS) ROW 2 (LOW) = -1V;  
1541 56C7 LET (EPDC BUS) ROW 2 (HIGH) = 24V;  
1542 56C0 LET (EPDC BUS) ROW 3 (LOW) = -1V;  
1543 56D3 LET (EPDC BUS) ROW 3 (HIGH) = 24V;

1544 56D9 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

1545 56E0 ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;  
1546 56E5 ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;  
1547 56EA ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;  
1548 56EF ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;

1549 56F4 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
1550 56F9 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
1551 56FE ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
1552 5704 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
1553 5709 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
1554 570E ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
1555 5713 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
1556 5718 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
1557 571D ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
1558 5722 ASSIGN (SWITCH) ROW 19 (EXPECTED) = ON;  
1559 5727 ASSIGN (SWITCH) ROW 21 (EXPECTED) = ON;  
1560 572C ASSIGN (SWITCH) ROW 23 (EXPECTED) = ON;



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

1561 5731 ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;

1562 5736 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;

1563 5738 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;

1564 5740 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;

1565 5745 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;

1566 5744 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;

1567 574F ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;

1568 5754 ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;

1569 5759 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;

1570 575E ASSIGN (VALVE1) ROW 67 (EXPECTED) = ON;

1571 5763 ASSIGN (VALVE1) ROW 68 (EXPECTED) = ON;

1572 5768 ASSIGN (VALVE1) ROW 73 (EXPECTED) = ON;

1573 576D ASSIGN (VALVE1) ROW 85 (EXPECTED) = ON;

1574 5772 ASSIGN (VALVE1) ROW 86 (EXPECTED) = ON;

1575 5777 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;

1576 577C ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;

1577 5782 ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;

1578 5787 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;

1579 578C ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;

1580 5794 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;

1581 5796 ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;

1582 579B ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

1583 57A0 END SEQUENCE;

1584 57A2 IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

1585 57A9 ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;

1586 57AE ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;

1587 57B5 ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;

1588 57B8 ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;

1589 57BD ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;

1590 57C2 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;

1591 57C7 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;

1592 57CC ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;

1593 57D1 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;

1594 57D6 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;

1595 57DB ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;

1596 57E0 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;

1597 57E5 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;

1598 57EA ASSIGN (SWITCH) ROW 20 (EXPECTED) = ON;

1599 57EF ASSIGN (SWITCH) ROW 22 (EXPECTED) = ON;

1600 57F4 ASSIGN (SWITCH) ROW 23 (EXPECTED) = ON;

1601 57F9 ASSIGN (VALVE1) ROW 5 (EXPECTED) = ON;

1602 57FE ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;

1603 5804 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;

1604 5809 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

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1605 580E EXPANDED SOURCE STATEMENT
1605 580E ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;
1606 5813 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;
1607 5818 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;
1608 581D ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;
1609 5822 ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;
1610 5827 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;
1611 582C ASSIGN (VALVE1) ROW 62 (EXPECTED) = ON;
1612 5831 ASSIGN (VALVE1) ROW 75 (EXPECTED) = ON;
1613 5836 ASSIGN (VALVE1) ROW 87 (EXPECTED) = ON;
1614 5839 ASSIGN (VALVE1) ROW 89 (EXPECTED) = ON;
1615 584D ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;
1616 5845 ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;
1617 584A ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;
1618 584F ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;
1619 5854 ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;
1620 5859 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;
1621 585E ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;
1622 5863 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

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END SEQUENCE;

If (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

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1625 5878 ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;
1626 587D ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;
1627 5883 ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;
1628 5888 ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;

1629 588D ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;
1630 5892 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;
1631 5897 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;
1632 589C ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;
1633 58A1 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;
1634 58A6 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;
1635 58AB ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;
1636 58B0 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;
1637 58B5 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;
1638 58BA ASSIGN (SWITCH) ROW 23 (EXPECTED) = ON;

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END SEQUENCE;

GOTO STEP 1000;

STEP 2060 CONTINUE;

LET (SEQ) = 1;

LET (TEST) = 6;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

1644 5804 STEP 2065 CONTINUE;

1645 5804 LET (EPDC BUS) ROW 3 (LOW) = -1V;  
1646 5804 LET (EPDC BUS) ROW 3 (HIGH) = 24V;

1647 58E0 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

1648 58E7 ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;  
1649 58EC ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;

1650 58F1 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
1651 58F6 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
1652 58F8 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
1653 5901 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
1654 5906 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
1655 590B ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
1656 5910 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
1657 5915 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
1658 591A ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
1659 591F ASSIGN (SWITCH) ROW 19 (EXPECTED) = ON;  
1660 5924 ASSIGN (SWITCH) ROW 21 (EXPECTED) = ON;  
1661 5929 ASSIGN (SWITCH) ROW 23 (EXPECTED) = ON;  
1662 592E ASSIGN (SWITCH) ROW 49 (EXPECTED) = ON;  
1663 5933 ASSIGN (SWITCH) ROW 51 (EXPECTED) = ON;  
1664 5938 ASSIGN (SWITCH) ROW 55 (EXPECTED) = ON;

1665 593D ASSIGN (VALVE1) ROW 2 (EXPECTED) = ON;  
1666 5942 ASSIGN (VALVE1) ROW 4 (EXPECTED) = ON;  
1667 5947 ASSIGN (VALVE1) ROW 6 (EXPECTED) = ON;  
1668 594C ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;  
1669 5951 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;  
1670 5956 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
1671 595B ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;  
1672 5960 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;  
1673 5965 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;  
1674 596A ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;  
1675 596F ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;  
1676 5974 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;  
1677 5979 ASSIGN (VALVE1) ROW 34 (EXPECTED) = ON;  
1678 597E ASSIGN (VALVE1) ROW 39 (EXPECTED) = ON;  
1679 5984 ASSIGN (VALVE1) ROW 51 (EXPECTED) = ON;  
1680 5989 ASSIGN (VALVE1) ROW 52 (EXPECTED) = ON;  
1681 598E ASSIGN (VALVE1) ROW 59 (EXPECTED) = ON;  
1682 5993 ASSIGN (VALVE1) ROW 60 (EXPECTED) = ON;  
1683 5998 ASSIGN (VALVE1) ROW 67 (EXPECTED) = ON;  
1684 599D ASSIGN (VALVE1) ROW 68 (EXPECTED) = ON;  
1685 59A2 ASSIGN (VALVE1) ROW 73 (EXPECTED) = ON;  
1686 59A7 ASSIGN (VALVE1) ROW 74 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISM ADDR EXPANDED SOURCE STATEMENT  
 1687 59AC ASSIGN (VALVE1) ROW 85 (EXPECTED) = ON;  
 1688 59B1 ASSIGN (VALVE1) ROW 86 (EXPECTED) = ON;  
 1689 59B6 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;  
 1690 59BB ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;  
 1691 59C0 ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;  
 1692 59C5 ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;  
 1693 59CA ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;  
 1694 59CF ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;  
 1695 59D4 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;  
 1696 59D9 ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;  
 1697 59DE ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;  
 1698 59E3 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

1699 59E8 END SEQUENCE;

1700 59EA IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

1701 59F1 ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;  
 1702 59F6 ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;

1703 59FB ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
 1704 5A01 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 1705 5A06 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
 1706 5A0B ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
 1707 5A10 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
 1708 5A15 ASSIGN (SWITCH) ROW 12 (EXPECTED) = ON;  
 1709 5A1A ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
 1710 5A1F ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
 1711 5A24 ASSIGN (SWITCH) ROW 18 (EXPECTED) = ON;  
 1712 5A29 ASSIGN (SWITCH) ROW 20 (EXPECTED) = ON;  
 1713 5A2E ASSIGN (SWITCH) ROW 22 (EXPECTED) = ON;  
 1714 5A33 ASSIGN (SWITCH) ROW 52 (EXPECTED) = ON;  
 1715 5A38 ASSIGN (SWITCH) ROW 56 (EXPECTED) = ON;

1716 5A3D ASSIGN (VALVE1) ROW 1 (EXPECTED) = ON;  
 1717 5A42 ASSIGN (VALVE1) ROW 3 (EXPECTED) = ON;  
 1718 5A47 ASSIGN (VALVE1) ROW 5 (EXPECTED) = ON;  
 1719 5A4C ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;  
 1720 5A51 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;  
 1721 5A56 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
 1722 5A5B ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;  
 1723 5A60 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;  
 1724 5A65 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;  
 1725 5A6A ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;  
 1726 5A6F ASSIGN (VALVE1) ROW 30 (EXPECTED) = ON;  
 1727 5A74 ASSIGN (VALVE1) ROW 62 (EXPECTED) = ON;  
 1728 5A79 ASSIGN (VALVE1) ROW 75 (EXPECTED) = ON;  
 1729 5A7E ASSIGN (VALVE1) ROW 76 (EXPECTED) = ON;  
 1730 5A84 ASSIGN (VALVE1) ROW 87 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

EXPANDED SOURCE STATEMENT  
 1731 5A89 ASSIGN (VALVE1) ROW 88 (EXPECTED) = ON;  
 1732 5A9C ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;  
 1733 5A93 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;  
 1734 5A98 ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;  
 1735 5A9D ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;  
 1736 5AA2 ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;  
 1737 5AA7 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;  
 1738 5AAC ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;  
 1739 5AB1 ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;

1740 5AB6 END SEQUENCE;

1741 5AB8 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

1742 5AC6 ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;  
 1743 5ACB ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;

1744 5AD0 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
 1745 5AD5 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 1746 5ADA ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
 1747 5ADF ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
 1748 5AE4 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
 1749 5AE9 ASSIGN (SWITCH) ROW 12 (EXPECTED) = ON;  
 1750 5AEE ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
 1751 5AF3 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;

1752 5AF8 END SEQUENCE;

1753 5AFA GOTO STEP 1000;

1754 5AFD STEP 2070 CONTINUE;

1755 5B01 LET (SEQ) = 1;

1756 5B06 LET (TEST) = 7;

1757 5B0B STEP 2075 CONTINUE;

1758 5B0E LET (EPDC BUS) ROW 4 (LOW) = -1V;  
 1759 5B14 LET (EPDC BUS) ROW 4 (HIGH) = 24V;

1760 5B1A IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

1761 5B21 ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
 1762 5B26 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IGN ADDR	EXPANDED SOURCE STATEMENT	IC
1763 5B28	ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;	
1764 5B30	ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;	
1765 5B35	ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;	
1766 5B3A	ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;	
1767 5B3F	ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;	
1768 5B44	ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;	
1769 5B49	ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;	
1770 5B4E	ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;	
1771 5B53	ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;	
1772 5B58	ASSIGN (SWITCH) ROW 19 (EXPECTED) = ON;	
1773 5B5D	ASSIGN (SWITCH) ROW 25 (EXPECTED) = ON;	
1774 5B62	ASSIGN (SWITCH) ROW 27 (EXPECTED) = ON;	
1775 5B67	ASSIGN (SWITCH) ROW 29 (EXPECTED) = ON;	
1776 5B6C	ASSIGN (VALVE1) ROW 4 (EXPECTED) = ON;	
1777 5B71	ASSIGN (VALVE1) ROW 6 (EXPECTED) = ON;	
1778 5B76	ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;	
1779 5B7B	ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;	
1780 5B81	ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;	
1781 5B86	ASSIGN (VALVE1) ROW 12 (EXPECTED) = ON;	
1782 5B8B	ASSIGN (VALVE1) ROW 14 (EXPECTED) = ON;	
1783 5B90	ASSIGN (VALVE1) ROW 16 (EXPECTED) = ON;	
1784 5B95	ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;	
1785 5B9A	ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;	
1786 5B9F	ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;	
1787 5BA4	ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;	
1788 5BA9	ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;	
1789 5BAE	ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;	
1790 5BB3	ASSIGN (VALVE1) ROW 67 (EXPECTED) = ON;	
1791 5BB8	ASSIGN (VALVE1) ROW 70 (EXPECTED) = ON;	
1792 5BBD	ASSIGN (VALVE1) ROW 73 (EXPECTED) = ON;	
1793 5BC2	ASSIGN (VALVE1) ROW 85 (EXPECTED) = ON;	
1794 5BC7	ASSIGN (VALVE1) ROW 90 (EXPECTED) = ON;	
1795 5BCC	ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;	
1796 5BD1	ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;	
1797 5BD6	ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;	
1798 5BD8	ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;	
1799 5BE0	ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;	
1800 5BE5	ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;	
1801 5BEA	ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;	
1802 5BEF	ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;	
1803 5BF4	ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;	
1804 5BF9	ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;	
1805 5BFE	ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;	

1806 5C04 END SEQUENCE;

1807 5C06 IF (SF0) = 2 THEN

BEGIN SEQUENCE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

1808 5C0D ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
~~1809 5C12 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;~~

1810 5C17 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
 1811 5C1C ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 1812 5C21 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
 1813 5C26 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
 1814 5C28 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
 1815 5C30 ASSIGN (SWITCH) ROW 12 (EXPECTED) = ON;  
 1816 5C35 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
 1817 5C3A ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
 1818 5C3F ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
 1819 5C44 ASSIGN (SWITCH) ROW 20 (EXPECTED) = ON;  
~~1820 5C49 ASSIGN (SWITCH) ROW 26 (EXPECTED) = ON;~~  
 1821 5C4E ASSIGN (SWITCH) ROW 28 (EXPECTED) = ON;

1822 5C53 ASSIGN (VALVE1) ROW 3 (EXPECTED) = ON;  
 1823 5C58 ASSIGN (VALVE1) ROW 5 (EXPECTED) = ON;  
 1824 5C5D ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;  
 1825 5C62 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;  
 1826 5C67 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
 1827 5C6C ASSIGN (VALVE1) ROW 11 (EXPECTED) = ON;  
 1828 5C71 ASSIGN (VALVE1) ROW 13 (EXPECTED) = ON;  
 1829 5C76 ASSIGN (VALVE1) ROW 15 (EXPECTED) = ON;  
 1830 5C7B ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;  
 1831 5C81 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;  
 1832 5C86 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;  
 1833 5C8B ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;  
 1834 5C90 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;  
 1835 5C95 ASSIGN (VALVE1) ROW 61 (EXPECTED) = ON;  
 1836 5C9A ASSIGN (VALVE1) ROW 62 (EXPECTED) = ON;  
 1837 5C9F ASSIGN (VALVE1) ROW 63 (EXPECTED) = ON;  
 1838 5CA4 ASSIGN (VALVE1) ROW 80 (EXPECTED) = ON;  
 1839 5CA9 ASSIGN (VALVE1) ROW 87 (EXPECTED) = ON;  
 1840 5CAE ASSIGN (VALVE1) ROW 92 (EXPECTED) = ON;  
 1841 5CB3 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;  
 1842 5CB8 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;  
 1843 5CBD ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;  
 1844 5CC2 ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;  
 1845 5CC7 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;  
 1846 5CCC ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;  
 1847 5CD1 ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;  
 1848 5CD6 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;  
 1849 5CD8 ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;  
 1850 5CED ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;

1851 5CE5 END SEQUENCE;

1852 5CE7 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING

IC ADDR EXPANDED SOURCE STATEMENT

1853 5CFF ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;

1854 5CFA ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;

1855 5CFF ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;

1856 5D05 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;

1857 5D0A ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;

1858 5D0F ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;

1859 5D14 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;

1860 5D19 ASSIGN (SWITCH) ROW 12 (EXPECTED) = ON;

1861 5D1E ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;

1862 5D23 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;

1863 5D28 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;

1864 5D2B END SEQUENCE;

1865 5D2F GOTO STEP 1000;

1866 5D32 STEP 2000 CONTINUE;

1867 5D35 LET (SEQ) = 1;

1868 5D3A LET (TEST) = 8;

1869 5D3F STEP 2005 CONTINUE;

1870 5D42 LET (EPDC BUS) ROW 4 (LOW) = -1V;

1871 5D48 LET (EPDC BUS) ROW 4 (HIGH) = 24V;

1872 5D4E LET (EPDC BUS) ROW 5 (LOW) = -1V;

1873 5D54 LET (EPDC BUS) ROW 5 (HIGH) = 24V;

1874 5D5A IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

1875 5D61 ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;

1876 5D66 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;

1877 5D6B ASSIGN (SWITCH) ROW 29 (NOPOWER) = ON;

1878 5D70 ASSIGN (SWITCH) ROW 30 (NOPOWER) = ON;

1879 5D75 ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;

1880 5D7A ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

1881 5D7F ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;

1882 5D85 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;

1883 5D8A ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;

1884 5D8F ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;

1885 5D94 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;

1886 5D99 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;

1887 5D9E ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;

1888 5DA3 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

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ISN ADDR EXPANDED SOURCE STATEMENT
1889 5DA8 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;
1890 5DA9 ASSIGN (SWITCH) ROW 25 (EXPECTED) = ON;
1891 5DB2 ASSIGN (SWITCH) ROW 27 (EXPECTED) = ON;

1892 5DB7 ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;
1893 5DB8 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;
1894 5DC1 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;
1895 5DC6 ASSIGN (VALVE1) ROW 14 (EXPECTED) = ON;
1896 5DC8 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;
1897 5DB0 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;
1898 5DD5 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;
1899 5DBA ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;
1900 5DDF ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;
1901 5DE4 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;
1902 5DE9 ASSIGN (VALVE1) ROW 70 (EXPECTED) = ON;
1903 5DEE ASSIGN (VALVE1) ROW 90 (EXPECTED) = ON;
1904 5DF3 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;
1905 5DF8 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;
1906 5DFD ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;
1907 5E03 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;
1908 5E08 ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;
1909 5E0D ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;
1910 5E12 ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;
1911 5E17 ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;
1912 5E1C ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;

1913 5E21 END SEQUENCE;

1914 5E23 IF (SER) = 2 THEN
BEGIN SEQUENCE;

1915 5E2A ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;
1916 5E2F ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;
1917 5E34 ASSIGN (SWITCH) ROW 29 (NOPOWER) = ON;
1918 5E39 ASSIGN (SWITCH) ROW 30 (NOPOWER) = ON;
1919 5E3E ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;
1920 5E43 ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

1921 5E48 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;
1922 5E4D ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;
1923 5E52 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;
1924 5E57 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;
1925 5E5C ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;
1926 5E61 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;
1927 5E66 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;
1928 5E6B ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;
1929 5E70 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;
1930 5E75 ASSIGN (SWITCH) ROW 26 (EXPECTED) = ON;
1931 5E7A ASSIGN (SWITCH) ROW 28 (EXPECTED) = ON;

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VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

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ISN ADDR EXPANDED SOURCE STATEMENT  
 1932 5E7F ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;  
 1933 5E85 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;  
 1934 5E8A ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
 1935 5E8F ASSIGN (VALVE1) ROW 13 (EXPECTED) = ON;  
 1936 5E94 ASSIGN (VALVE1) ROW 15 (EXPECTED) = ON;  
 1937 5E99 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;  
 1938 5E9E ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;  
 1939 5EA3 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;  
 1940 5EA8 ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;  
 1941 5EAD ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;  
 1942 5EB2 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;  
 1943 5EB7 ASSIGN (VALVE1) ROW 63 (EXPECTED) = ON;  
 1944 5EBC ASSIGN (VALVE1) ROW 92 (EXPECTED) = ON;  
 1945 5EC1 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;  
 1946 5EC6 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;  
 1947 5ECB ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;  
 1948 5ED0 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;  
 1949 5EDA ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;  
 1950 5ED5 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;  
 1951 5EDF ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;  
 1952 5EE4 ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;  
 1953 5EE9 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;

1954 5EEE END SEQUENCE;

1955 5EF0 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

1956 5EFE ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
 1957 5F04 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
 1958 5F09 ASSIGN (SWITCH) ROW 29 (NOPOWER) = ON;  
 1959 5F0E ASSIGN (SWITCH) ROW 30 (NOPOWER) = ON;  
 1960 5F13 ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;  
 1961 5F18 ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

1962 5F1D ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
 1963 5F22 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 1964 5F27 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
 1965 5F2C ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
 1966 5F31 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
 1967 5F36 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
 1968 5F3B ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
 1969 5F40 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
 1970 5F45 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;

1971 5F4A END SEQUENCE;

1972 5F4C GOTO STEP 1000;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

IC REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

ISN ADDR EXPANDED SOURCE STATEMENT  
1973 5F4F STEP 2090 CONTINUE;

1974 5F52 LET (SEQ) = 1;

1975 5F57 LET (TEST) = 9;

1976 5F5C STEP 2095 CONTINUE;

1977 5F5F LET (EPDC BUS) ROW 4 (LOW) = -1V;  
1978 5F65 LET (EPDC BUS) ROW 4 (HIGH) = 24V;  
1979 5F6B LET (EPDC BUS) ROW 5 (LOW) = -1V;  
1980 5F71 LET (EPDC BUS) ROW 5 (HIGH) = 24V;  
1981 5F77 LET (EPDC BUS) ROW 6 (LOW) = -1V;  
1982 5F7D LET (EPDC BUS) ROW 6 (HIGH) = 24V;

1983 5F84 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

1984 5F8B ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;  
1985 5F90 ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;  
1986 5F95 ASSIGN (SWITCH) ROW 27 (NOPOWER) = ON;  
1987 5F9A ASSIGN (SWITCH) ROW 28 (NOPOWER) = ON;  
1988 5F9F ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
1989 5FA4 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
1990 5FA9 ASSIGN (SWITCH) ROW 29 (NOPOWER) = ON;  
1991 5FAE ASSIGN (SWITCH) ROW 30 (NOPOWER) = ON;  
1992 5FB3 ASSIGN (SWITCH) ROW 33 (NOPOWER) = ON;  
1993 5FB8 ASSIGN (SWITCH) ROW 34 (NOPOWER) = ON;  
1994 5FBD ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;  
1995 5FC2 ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;  
1996 5FC7 ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;  
1997 5FCC ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

1998 5FD1 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
1999 5FD6 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
2000 5FDB ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
2001 5FE0 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
2002 5FE5 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
2003 5FEA ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
2004 5FEF ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
2005 5FF4 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
2006 5FF9 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
2007 5FFE ASSIGN (SWITCH) ROW 25 (EXPECTED) = ON;

2008 6004 ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;  
2009 6009 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;  
2010 600E ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
2011 6013 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;  
2012 6018 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;  
2013 601D ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

IC EXPANDED SOURCE STATEMENT

2014 6022 ASSIGN (VALVE1) ROW 23 (EXPECTED) = ON;  
 2015 6027 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;  
 2016 602C ASSIGN (VALVE1) ROW 70 (EXPECTED) = ON;  
 2017 6031 ASSIGN (VALVE1) ROW 90 (EXPECTED) = ON;  
 2018 6036 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;  
 2019 603B ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;  
 2020 6040 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;  
 2021 6045 ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;  
 2022 604A ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;  
 2023 604F ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;  
 2024 6054 ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;  
 2025 6059 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;

2026 605E END SEQUENCE;

2027 6060 If (SEQ) = 2 THEN

BEGIN SEQUENCE;

2028 6067 ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;  
 2029 606C ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;  
 2030 6071 ASSIGN (SWITCH) ROW 27 (NOPOWER) = ON;  
 2031 6076 ASSIGN (SWITCH) ROW 28 (NOPOWER) = ON;  
 2032 607B ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
 2033 6081 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
 2034 6086 ASSIGN (SWITCH) ROW 29 (NOPOWER) = ON;  
 2035 608B ASSIGN (SWITCH) ROW 30 (NOPOWER) = ON;  
 2036 6090 ASSIGN (SWITCH) ROW 33 (NOPOWER) = ON;  
 2037 6095 ASSIGN (SWITCH) ROW 34 (NOPOWER) = ON;  
 2038 609A ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;  
 2039 609F ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;  
 2040 60A4 ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;  
 2041 60A9 ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

2042 60AE ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
 2043 60B3 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 2044 60B8 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
 2045 60BD ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
 2046 60C2 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
 2047 60C7 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
 2048 60CC ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
 2049 60D1 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
 2050 60D6 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
 2051 60DB ASSIGN (SWITCH) ROW 20 (EXPECTED) = ON;

2052 60E0 ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;  
 2053 60E5 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;  
 2054 60EA ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
 2055 60EF ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;  
 2056 60F4 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;  
 2057 60F9 ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
 2058 60FE ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;  
 2059 6104 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;  
 2060 6109 ASSIGN (VALVE1) ROW 92 (EXPECTED) = ON;  
 2061 610E ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;  
 2062 6113 ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;  
 2063 6118 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;  
 2064 611D ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;  
 2065 6122 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;  
 2066 6127 ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;  
 2067 612C ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;  
 2068 6131 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;

2069 6136 END SEQUENCE;

2070 6138 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

2071 6146 ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;  
 2072 614B ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;  
 2073 6150 ASSIGN (SWITCH) ROW 27 (NOPOWER) = ON;  
 2074 6155 ASSIGN (SWITCH) ROW 28 (NOPOWER) = ON;  
 2075 615A ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
 2076 615F ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
 2077 6164 ASSIGN (SWITCH) ROW 29 (NOPOWER) = ON;  
 2078 6169 ASSIGN (SWITCH) ROW 30 (NOPOWER) = ON;  
 2079 616E ASSIGN (SWITCH) ROW 33 (NOPOWER) = ON;  
 2080 6173 ASSIGN (SWITCH) ROW 34 (NOPOWER) = ON;  
 2081 6178 ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;  
 2082 617D ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;  
 2083 6183 ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;  
 2084 6188 ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

2085 618D ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
 2086 6192 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 2087 6197 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
 2088 619C ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
 2089 61A1 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
 2090 61A6 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
 2091 61AB ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
 2092 61B0 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
 2093 61B5 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;

2094 61BA END SEQUENCE;

2095 61BC GOTO STEP 1000;

2096 61BF STEP 2100 CONTINUE;

2097 61C2 LET (SEQ) = 1;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISM ADDR EXPANDED SOURCE STATEMENT

~~2098 6167 LET (TEST) = 10;~~

~~2099 6166 STEP 2105 CONTINUE;~~

2100 616F LET (EPDC-BUS) ROW 5 (LOW) = 1V;  
2101 61D5 LET (EPDC BUS) ROW 5 (HIGH) = 24V;

2102 61DR IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

2103 61E2 ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;  
~~2104 61E7 ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;~~

~~2105 61EC ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;~~  
~~2106 61F1 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;~~  
~~2107 61F6 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;~~  
~~2108 61FB ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;~~  
~~2109 6201 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;~~  
~~2110 6206 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;~~  
~~2111 6208 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;~~  
~~2112 6210 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;~~  
~~2113 6215 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;~~  
~~2114 621A ASSIGN (SWITCH) ROW 25 (EXPECTED) = ON;~~  
~~2115 621F ASSIGN (SWITCH) ROW 27 (EXPECTED) = ON;~~  
~~2116 6224 ASSIGN (SWITCH) ROW 29 (EXPECTED) = ON;~~  
~~2117 6229 ASSIGN (SWITCH) ROW 33 (EXPECTED) = ON;~~  
~~2118 622E ASSIGN (SWITCH) ROW 49 (EXPECTED) = ON;~~  
~~2119 6233 ASSIGN (SWITCH) ROW 57 (EXPECTED) = ON;~~

~~2120 6238 ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;~~  
~~2121 6230 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;~~  
~~2122 6242 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;~~  
~~2123 6247 ASSIGN (VALVE1) ROW 12 (EXPECTED) = ON;~~  
~~2124 624C ASSIGN (VALVE1) ROW 14 (EXPECTED) = ON;~~  
~~2125 6251 ASSIGN (VALVE1) ROW 16 (EXPECTED) = ON;~~  
~~2126 6256 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;~~  
~~2127 6258 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;~~  
~~2128 6260 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;~~  
~~2129 6265 ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;~~  
~~2130 626A ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;~~  
~~2131 626F ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;~~  
~~2132 6274 ASSIGN (VALVE1) ROW 36 (EXPECTED) = ON;~~  
~~2133 6279 ASSIGN (VALVE1) ROW 53 (EXPECTED) = ON;~~  
~~2134 627E ASSIGN (VALVE1) ROW 59 (EXPECTED) = ON;~~  
~~2135 6284 ASSIGN (VALVE1) ROW 60 (EXPECTED) = ON;~~  
~~2136 6289 ASSIGN (VALVE1) ROW 69 (EXPECTED) = ON;~~  
~~2137 628E ASSIGN (VALVE1) ROW 70 (EXPECTED) = ON;~~  
~~2138 6293 ASSIGN (VALVE1) ROW 77 (EXPECTED) = ON;~~  
~~2139 6298 ASSIGN (VALVE1) ROW 89 (EXPECTED) = ON;~~

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
 2140 629D ASSIGN (VALVE1) ROW 90 (EXPECTED) = ON;  
 2141 62A2 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;  
 2142 62A7 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;  
 2143 62AC ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;  
 2144 62B1 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;  
 2145 62B6 ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;  
 2146 62BB ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;  
 2147 62C0 ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;  
 2148 62C5 ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;  
 2149 62CA ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;  
 2150 62CF ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

2151 62D4 END SEQUENCE;

2152 62D6 IF (SER) = 2 THEN

BEGIN SEQUENCE;

2153 62DD ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;  
 2154 62E2 ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

2155 62E7 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
 2156 62EC ASSIGN (SWITCH) ROW 4 (EXPECTED) = ON;  
 2157 62F1 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
 2158 62F6 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
 2159 62FB ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
 2160 6301 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
 2161 6306 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
 2162 630B ASSIGN (SWITCH) ROW 16 (EXPECTED) = ON;  
 2163 6310 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
 2164 6315 ASSIGN (SWITCH) ROW 26 (EXPECTED) = ON;  
 2165 631A ASSIGN (SWITCH) ROW 28 (EXPECTED) = ON;  
 2166 631F ASSIGN (SWITCH) ROW 34 (EXPECTED) = ON;  
 2167 6324 ASSIGN (SWITCH) ROW 58 (EXPECTED) = ON;

2168 6329 ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;  
 2169 632E ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
 2170 6333 ASSIGN (VALVE1) ROW 11 (EXPECTED) = ON;  
 2171 6338 ASSIGN (VALVE1) ROW 13 (EXPECTED) = ON;  
 2172 633D ASSIGN (VALVE1) ROW 15 (EXPECTED) = ON;  
 2173 6342 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;  
 2174 6347 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;  
 2175 634C ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;  
 2176 6351 ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;  
 2177 6356 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;  
 2178 635B ASSIGN (VALVE1) ROW 63 (EXPECTED) = ON;  
 2179 6360 ASSIGN (VALVE1) ROW 64 (EXPECTED) = ON;  
 2180 6365 ASSIGN (VALVE1) ROW 79 (EXPECTED) = ON;  
 2181 636A ASSIGN (VALVE1) ROW 91 (EXPECTED) = ON;  
 2182 636F ASSIGN (VALVE1) ROW 92 (EXPECTED) = ON;  
 2183 6374 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

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IC
ISN ADDR EXPANDED SOURCE STATEMENT
2184 6379 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;
2185 637C ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;
2186 6384 ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;
2187 6389 ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;
2188 638E ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;
2189 6393 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;
2190 6398 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

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2191 639D END SEQUENCE;

2192 639F IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

2193 63AD ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;

2194 63B2 ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

2195 63B7 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;

2196 63BC ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;

2197 63C4 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;

2198 63C6 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;

2199 63CB ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;

2200 63D0 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;

2201 63D5 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;

2202 63DA ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;

2203 63DF END SEQUENCE;

2204 63E1 GOTO STEP 1000;

2205 63E4 STEP 2110 CONTINUE;

2206 63E7 LET (SEQ) = 1;

2207 63EC LET (TEST) = 11;

2208 63F1 STEP 2115 CONTINUE;

2209 63F4 LET (EPDC BUS) ROW 5 (LOW) = -1V;

2210 63FA LET (EPDC BUS) ROW 5 (HIGH) = 24V;

2211 6401 LET (EPDC BUS) ROW 6 (LOW) = -1V;

2212 6407 LET (EPDC BUS) ROW 6 (HIGH) = 24V;

2213 640D IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

2214 6414 ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;

2215 6419 ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;

2216 641E ASSIGN (SWITCH) ROW 33 (NOPOWER) = ON;



VAEA6 - V1161/C16/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC	EXPANDED SOURCE STATEMENT
2217 6423	ASSIGN (SWITCH) ROW 34 (NOPOWER) = ON;
2218 6428	ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;
2219 642D	ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;
2220 6432	ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;
2221 6437	ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;
2222 643C	ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;
2223 6441	ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;
2224 6446	ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;
2225 6448	ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;
2226 6450	ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;
2227 6455	ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;
2228 645A	ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;
2229 645F	ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;
2230 6464	ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;
2231 6469	ASSIGN (SWITCH) ROW 25 (EXPECTED) = ON;
2232 646E	ASSIGN (SWITCH) ROW 27 (EXPECTED) = ON;
2233 6473	ASSIGN (SWITCH) ROW 33 (EXPECTED) = ON;
2234 6478	ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;
2235 647D	ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;
2236 6483	ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;
2237 6488	ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;
2238 648D	ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;
2239 6492	ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;
2240 6497	ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;
2241 649C	ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;
2242 64A1	ASSIGN (VALVE1) ROW 69 (EXPECTED) = ON;
2243 64A6	ASSIGN (VALVE1) ROW 70 (EXPECTED) = ON;
2244 64AB	ASSIGN (VALVE1) ROW 77 (EXPECTED) = ON;
2245 64B0	ASSIGN (VALVE1) ROW 89 (EXPECTED) = ON;
2246 64B5	ASSIGN (VALVE1) ROW 90 (EXPECTED) = ON;
2247 64BA	ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;
2248 64BF	ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;
2249 64C4	ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;
2250 64C9	ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;
2251 64CE	ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;
2252 64D3	ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;
2253 64D8	ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;
2254 64DD	ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;
2255 64E2	ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;
2256 64E7	END SEQUENCE;
2257 64E9	IF (SEQ) = 2 THEN
	BEGIN SEQUENCE;
2258 64F0	ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;
2259 64F5	ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;
2260 64FA	ASSIGN (SWITCH) ROW 33 (NOPOWER) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC EXPANDED SOURCE STATEMENT

- 2261 64FF ASSIGN (SWITCH) ROW 34 (NOPOWER) = ON;
- 2262 6505 ~~ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;~~
- 2263 650A ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;
- 2264 650F ~~ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;~~
- 2265 6514 ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;
- 2266 6519 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;
- 2267 651E ~~ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;~~
- 2268 6523 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;
- 2269 6528 ~~ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;~~
- 2270 652D ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;
- 2271 6532 ~~ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;~~
- 2272 6537 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;
- 2273 653C ~~ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;~~
- 2274 6541 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;
- 2275 6546 ~~ASSIGN (SWITCH) ROW 26 (EXPECTED) = ON;~~
- 2276 654B ASSIGN (SWITCH) ROW 28 (EXPECTED) = ON;
- 2277 6550 ~~ASSIGN (SWITCH) ROW 33 (EXPECTED) = ON;~~
- 2278 6555 ~~ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;~~
- 2279 655A ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;
- 2280 655F ~~ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;~~
- 2281 6564 ASSIGN (VALVE1) ROW 15 (EXPECTED) = ON;
- 2282 6569 ~~ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;~~
- 2283 656E ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;
- 2284 6573 ~~ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;~~
- 2285 6578 ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;
- 2286 657D ~~ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;~~
- 2287 6583 ASSIGN (VALVE1) ROW 64 (EXPECTED) = ON;
- 2288 6588 ~~ASSIGN (VALVE1) ROW 79 (EXPECTED) = ON;~~
- 2289 658D ASSIGN (VALVE1) ROW 91 (EXPECTED) = ON;
- 2290 6592 ~~ASSIGN (VALVE1) ROW 92 (EXPECTED) = ON;~~
- 2291 6597 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;
- 2292 659C ~~ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;~~
- 2293 65A1 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;
- 2294 65A6 ~~ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;~~
- 2295 65AB ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;
- 2296 65B0 ~~ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;~~
- 2297 65B5 ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;
- 2298 65BA ~~ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;~~
- 2299 65BF ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

2300 65C4 END SEQUENCE;

2301 65C6 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

2302 65D4 ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;

2303 65D9 ~~ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;~~

2304 65DE ASSIGN (SWITCH) ROW 33 (NOPOWER) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

EXPANDED SOURCE STATEMENT

2305 65E3 ASSIGN (SWITCH) ROW 34 (NOPOWER) = ON;  
~~2306 65E8 ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;~~  
2307 65E8 ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;  
2308 65F2 ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;  
2309 65F7 ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

2310 65FC ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
~~2311 6602 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;~~  
2312 6607 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
~~2313 6606 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;~~  
2314 6611 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
~~2315 6616 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;~~  
2316 661B ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
~~2317 6628 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;~~  
2318 6625 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
~~2319 662A ASSIGN (SWITCH) ROW 33 (EXPECTED) = ON;~~

2320 662F END SEQUENCE;

2321 6631 GOTO STEP 1000;

2322 6634 STEP 2120 CONTINUE;

2323 6637 LET (SEQ) = 1;

2324 663C LET (TEST) = 12;

2325 6641 STEP 2125 CONTINUE;

2326 6644 LET (EPDC BUS) ROW 6 (LOW) = -1V;

2327 664A LET (EPDC BUS) ROW 6 (HIGH) = 24V;

2328 6650 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

2329 6657 ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;

2330 665C ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;

2331 6661 ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;

2332 6666 ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;

2333 666B ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;

2334 6670 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;

2335 6675 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;

2336 667A ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;

2337 667F ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;

2338 6685 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;

2339 668A ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;

2340 668F ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;

2341 6694 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAE6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

2342 6699 ASSIGN (SWITCH) ROW 25 (EXPECTED) = ON;  
 2343 669E ASSIGN (SWITCH) ROW 27 (EXPECTED) = ON;  
 2344 66A3 ASSIGN (SWITCH) ROW 33 (EXPECTED) = ON;  
 2345 66A8 ASSIGN (SWITCH) ROW 51 (EXPECTED) = ON;  
 2346 66AD ASSIGN (SWITCH) ROW 53 (EXPECTED) = ON;

2347 66B2 ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;  
 2348 66B7 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;  
 2349 66BC ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
 2350 66C1 ASSIGN (VALVE1) ROW 12 (EXPECTED) = ON;  
 2351 66C6 ASSIGN (VALVE1) ROW 14 (EXPECTED) = ON;  
 2352 66CB ASSIGN (VALVE1) ROW 16 (EXPECTED) = ON;  
 2353 66D0 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;  
 2354 66D5 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;  
 2355 66DA ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;  
 2356 66DF ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;  
 2357 66E4 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;  
 2358 66E9 ASSIGN (VALVE1) ROW 35 (EXPECTED) = ON;  
 2359 66EE ASSIGN (VALVE1) ROW 50 (EXPECTED) = ON;  
 2360 66F3 ASSIGN (VALVE1) ROW 69 (EXPECTED) = ON;  
 2361 66F8 ASSIGN (VALVE1) ROW 70 (EXPECTED) = ON;  
 2362 66FB ASSIGN (VALVE1) ROW 77 (EXPECTED) = ON;  
 2363 6703 ASSIGN (VALVE1) ROW 78 (EXPECTED) = ON;  
 2364 6708 ASSIGN (VALVE1) ROW 89 (EXPECTED) = ON;  
 2365 670D ASSIGN (VALVE1) ROW 90 (EXPECTED) = ON;  
 2366 6712 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;  
 2367 6717 ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;  
 2368 671C ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;  
 2369 6721 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;  
 2370 6726 ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;  
 2371 672B ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;  
 2372 6730 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;  
 2373 6735 ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;  
 2374 673A ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;  
 2375 673F ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;  
 2376 6744 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

2377 6749 END SEQUENCE;

2378 674B If (SEQ) = 2 THEN

BEGIN SEQUENCE;

2379 6752 ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;  
 2380 6757 ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;  
 2381 675C ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;  
 2382 6761 ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;

2383 6766 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
 2384 676B ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 2385 6770 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

EXPANDED SOURCE STATEMENT

2386 6775 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;

2387 677A ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;

2388 677F ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;

2389 6785 ASSIGN (SWITCH) ROW 14 (EXPECTED) = ON;

2390 678A ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;

2391 678F ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;

2392 6794 ASSIGN (SWITCH) ROW 26 (EXPECTED) = ON;

2393 6790 ASSIGN (SWITCH) ROW 29 (EXPECTED) = ON;

2394 679E ASSIGN (SWITCH) ROW 34 (EXPECTED) = ON;

2395 67A3 ASSIGN (SWITCH) ROW 52 (EXPECTED) = ON;

2396 67A8 ASSIGN (SWITCH) ROW 54 (EXPECTED) = ON;

2397 67AD ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;

2398 67B2 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;

2399 67B7 ASSIGN (VALVE1) ROW 10 (EXPECTED) = ON;

2400 67BC ASSIGN (VALVE1) ROW 11 (EXPECTED) = ON;

2401 67C1 ASSIGN (VALVE1) ROW 13 (EXPECTED) = ON;

2402 67C6 ASSIGN (VALVE1) ROW 15 (EXPECTED) = ON;

2403 67CB ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;

2404 67D0 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;

2405 67D5 ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;

2406 67DA ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;

2407 67DF ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;

2408 67E4 ASSIGN (VALVE1) ROW 64 (EXPECTED) = ON;

2409 67E9 ASSIGN (VALVE1) ROW 79 (EXPECTED) = ON;

2410 67EE ASSIGN (VALVE1) ROW 80 (EXPECTED) = ON;

2411 67F3 ASSIGN (VALVE1) ROW 91 (EXPECTED) = ON;

2412 67F8 ASSIGN (VALVE1) ROW 92 (EXPECTED) = ON;

2413 67FD ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;

2414 6803 ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;

2415 6808 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;

2416 680D ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;

2417 6812 ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;

2418 6817 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;

2419 681C ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;

2420 6821 ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;

2421 6826 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;

2422 682B ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

2423 6830 END SEQUENCE;

2424 6832 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

2425 6840 ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;

2426 6845 ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;

2427 684A ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;

2428 684F ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;

2429 6854 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

EXPANDED SOURCE STATEMENT  
 2430 6859 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 2431 685E ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
 2432 6863 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
 2433 6868 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
 2434 686D ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
 2435 6872 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
 2436 6877 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;

2437 687C END SEQUENCE;

2438 687E 60F0 STEP 1000;

2439 6882 STEP 2130 CONTINUE;

2440 6885 LET (SEQ) = 1;

2441 688A LET (TEST) = 13;

2442 688F STEP 2135 CONTINUE;

2443 6892 LET (EPDC BUS) ROW 7 (LOW) = 1V;

2444 6898 LET (EPDC BUS) ROW 7 (HIGH) = 24V;

2445 689E IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

2446 68A5 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;

2447 68AA ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;

2448 68AF ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;

2449 68B4 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

2450 68B9 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;

2451 68BE ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;

2452 68C3 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;

2453 68C8 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;

2454 68CD ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;

2455 68D2 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;

2456 68D7 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;

2457 68DC ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;

2458 68E1 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;

2459 68E6 ASSIGN (SWITCH) ROW 25 (EXPECTED) = ON;

2460 68EB ASSIGN (SWITCH) ROW 35 (EXPECTED) = ON;

2461 68F0 ASSIGN (SWITCH) ROW 37 (EXPECTED) = ON;

2462 68F5 ASSIGN (SWITCH) ROW 40 (EXPECTED) = ON;

2463 68FA ASSIGN (SWITCH) ROW 42 (EXPECTED) = ON;

2464 68FF ASSIGN (SWITCH) ROW 43 (EXPECTED) = ON;

2465 6905 ASSIGN (SWITCH) ROW 47 (EXPECTED) = ON;

2466 690A ASSIGN (SWITCH) ROW 49 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

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EXPANDED SOURCE STATEMENT
2467 690F ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;
2468 6914 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;
2469 6919 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;
2470 691E ASSIGN (VALVE1) ROW 14 (EXPECTED) = ON;
2471 6923 ASSIGN (VALVE1) ROW 16 (EXPECTED) = ON;
2472 6928 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;
2473 692D ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;
2474 6932 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;
2475 6937 ASSIGN (VALVE1) ROW 22 (EXPECTED) = ON;
2476 693C ASSIGN (VALVE1) ROW 24 (EXPECTED) = ON;
2477 6941 ASSIGN (VALVE1) ROW 26 (EXPECTED) = ON;
2478 6946 ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;
2479 694B ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;
2480 6950 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;
2481 6955 ASSIGN (VALVE1) ROW 37 (EXPECTED) = ON;
2482 695A ASSIGN (VALVE1) ROW 47 (EXPECTED) = ON;
2483 695F ASSIGN (VALVE1) ROW 48 (EXPECTED) = ON;
2484 6964 ASSIGN (VALVE1) ROW 54 (EXPECTED) = ON;
2485 6969 ASSIGN (VALVE1) ROW 56 (EXPECTED) = ON;
2486 696E ASSIGN (VALVE1) ROW 58 (EXPECTED) = ON;
2487 6973 ASSIGN (VALVE1) ROW 59 (EXPECTED) = ON;
2488 6978 ASSIGN (VALVE1) ROW 60 (EXPECTED) = ON;
2489 697D ASSIGN (VALVE1) ROW 69 (EXPECTED) = ON;
2490 6983 ASSIGN (VALVE1) ROW 71 (EXPECTED) = ON;
2491 6988 ASSIGN (VALVE1) ROW 82 (EXPECTED) = ON;
2492 698D ASSIGN (VALVE1) ROW 89 (EXPECTED) = ON;
2493 6992 ASSIGN (VALVE1) ROW 94 (EXPECTED) = ON;
2494 6997 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;
2495 699C ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;
2496 69A1 ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;
2497 69A6 ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;
2498 69AB ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;
2499 69B0 ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;
2500 69B5 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;
2501 69BA ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;
2502 69BF ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;
2503 69C4 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

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END SEQUENCE;

IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

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2506 69D2 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;
2507 69D7 ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;
2508 69DC ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;
2509 69E1 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;
2510 69E6 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;
2511 69EB ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;

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VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

2512 69F0 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;

2513 69F5 ASSIGN (SWITCH) ROW 8 (EXPECTED) = ON;

2514 69FA ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;

2515 69FF ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;

2516 6A05 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;

2517 6A0A ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;

2518 6A0F ASSIGN (SWITCH) ROW 18 (EXPECTED) = ON;

2519 6A14 ASSIGN (SWITCH) ROW 26 (EXPECTED) = ON;

2520 6A19 ASSIGN (SWITCH) ROW 36 (EXPECTED) = ON;

2521 6A1E ASSIGN (SWITCH) ROW 38 (EXPECTED) = ON;

2522 6A23 ASSIGN (SWITCH) ROW 44 (EXPECTED) = ON;

2523 6A28 ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;

2524 6A2D ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;

2525 6A32 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;

2526 6A37 ASSIGN (VALVE1) ROW 13 (EXPECTED) = ON;

2527 6A3C ASSIGN (VALVE1) ROW 15 (EXPECTED) = ON;

2528 6A41 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;

2529 6A46 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;

2530 6A4B ASSIGN (VALVE1) ROW 21 (EXPECTED) = ON;

2531 6A50 ASSIGN (VALVE1) ROW 23 (EXPECTED) = ON;

2532 6A55 ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;

2533 6A5A ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;

2534 6A5F ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;

2535 6A64 ASSIGN (VALVE1) ROW 63 (EXPECTED) = ON;

2536 6A69 ASSIGN (VALVE1) ROW 64 (EXPECTED) = ON;

2537 6A6E ASSIGN (VALVE1) ROW 66 (EXPECTED) = ON;

2538 6A73 ASSIGN (VALVE1) ROW 84 (EXPECTED) = ON;

2539 6A78 ASSIGN (VALVE1) ROW 91 (EXPECTED) = ON;

2540 6A7D ASSIGN (VALVE1) ROW 96 (EXPECTED) = ON;

2541 6A83 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;

2542 6A88 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;

2543 6A8D ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;

2544 6A92 ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;

2545 6A97 ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;

2546 6A9C ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;

2547 6AA1 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;

2548 6AA6 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

END SEQUENCE;

IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

2551 6AB8 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;

2552 6AC0 ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;

2553 6AC5 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;

2554 6ACA ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

2555 6ACF ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

IC REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

EXPANDED SOURCE STATEMENT  
 2556 6AD4 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
 2557 6AD9  
 2558 6ADE ASSIGN (SWITCH) ROW 8 (EXPECTED) = ON;  
 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
 2559 6AE3  
 2560 6AE8 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
 2561 6AED  
 2562 6AF2 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
 ASSIGN (SWITCH) ROW 14 (EXPECTED) = ON;  
 2563 6AF7

2564 6AFC END SEQUENCE;

2565 6AFE GOTO STEP 1000;

2566 6B02 STEP 2140 CONTINUE;

2567 6B05 LET (SEQ) = 1;

2568 6B0A LET (TEST) = 14;

2569 6B0F STEP 2145 CONTINUE;

2570 6B12 LET (EPDC BUS) ROW 7 (LOW) = -1V;  
 2571 6B18 LET (EPDC BUS) ROW 7 (HIGH) = 24V;  
 2572 6B1E LET (EPDC BUS) ROW 8 (LOW) = -1V;  
 2573 6B24 LET (EPDC BUS) ROW 8 (HIGH) = 24V;

2574 6B2A IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

2575 6B31 ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;  
 2576 6B36 ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;  
 2577 6B3B ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
 2578 6B40 ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
 2579 6B45 ASSIGN (SWITCH) ROW 43 (NOPOWER) = ON;  
 2580 6B4A ASSIGN (SWITCH) ROW 44 (NOPOWER) = ON;  
 2581 6B4F ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
 2582 6B54 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

2583 6B59 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
 2584 6B5E ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 2585 6B63 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
 2586 6B68 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
 2587 6B6D ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
 2588 6B72 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
 2589 6B77 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
 2590 6B7C ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
 2591 6B82 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
 2592 6B87 ASSIGN (SWITCH) ROW 35 (EXPECTED) = ON;  
 2593 6B8C ASSIGN (SWITCH) ROW 37 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
 2594 6B91 ASSIGN (SWITCH) ROW 40 (EXPECTED) = ON;  
 2595 6B96 ASSIGN (SWITCH) ROW 42 (EXPECTED) = ON;  
 2596 6B9B ASSIGN (SWITCH) ROW 43 (EXPECTED) = ON;  
 2597 6BA0 ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;  
 2598 6BA5 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;  
 2599 6BAA ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
 2600 6BAF ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;  
 2601 6BB4 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;  
 2602 6BB9 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;  
 2603 6BBE ASSIGN (VALVE1) ROW 24 (EXPECTED) = ON;  
 2604 6BC3 ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;  
 2605 6BC8 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;  
 2606 6BCD ASSIGN (VALVE1) ROW 71 (EXPECTED) = ON;  
 2607 6BD2 ASSIGN (VALVE1) ROW 94 (EXPECTED) = ON;  
 2608 6BD7 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;  
 2609 6BDC ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;  
 2610 6BE1 ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;  
 2611 6BE6 ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;  
 2612 6BEB ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;  
 2613 6BF0 ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;  
 2614 6BF5 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;  
 2615 6BFA ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;  
 2616 6BFF ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;  
 2617 6C05 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

2618 6C0A END SEQUENCE;

2619 6C0C IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

2620 6C13 ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;  
 2621 6C18 ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;  
 2622 6C1D ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
 2623 6C22 ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
 2624 6C27 ASSIGN (SWITCH) ROW 43 (NOPOWER) = ON;  
 2625 6C2C ASSIGN (SWITCH) ROW 44 (NOPOWER) = ON;  
 2626 6C31 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
 2627 6C36 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

2628 6C3B ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
 2629 6C40 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 2630 6C45 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
 2631 6C4A ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
 2632 6C4F ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
 2633 6C54 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
 2634 6C59 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
 2635 6C5E ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
 2636 6C63 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
 2637 6C68 ASSIGN (SWITCH) ROW 36 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

IC EXPANDED SOURCE STATEMENT

IC	EXPANDED SOURCE STATEMENT
2638 6C60	ASSIGN (SWITCH) ROW 38 (EXPECTED) = ON;
2639 6C72	ASSIGN (SWITCH) ROW 43 (EXPECTED) = ON;
2640 6C77	ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;
2641 6C7C	ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;
2642 6C82	ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;
2643 6C87	ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;
2644 6C8C	ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;
2645 6C91	ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;
2646 6C96	ASSIGN (VALVE1) ROW 23 (EXPECTED) = ON;
2647 6C9B	ASSIGN (VALVE1) ROW 25 (EXPECTED) = ON;
2648 6CA0	ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;
2649 6CA5	ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;
2650 6CAA	ASSIGN (VALVE1) ROW 66 (EXPECTED) = ON;
2651 6CAF	ASSIGN (VALVE1) ROW 96 (EXPECTED) = ON;
2652 6CB4	ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;
2653 6CB9	ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;
2654 6CBE	ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;
2655 6CC3	ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;
2656 6CC8	ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;
2658 6CD2	ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;
2659 6CD7	ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;
2660 6CDC	ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;
2661 6CE1	ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;
2662 6CE6	END SEQUENCE;
2663 6CE8	IF (SEQ) = 3 OR (SEQ) = 4 THEN.
	BEGIN SEQUENCE;
2664 6CF6	ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;
2665 6CFB	ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;
2666 6D01	ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;
2667 6D06	ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;
2668 6D0B	ASSIGN (SWITCH) ROW 43 (NOPOWER) = ON;
2669 6D10	ASSIGN (SWITCH) ROW 44 (NOPOWER) = ON;
2670 6D15	ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;
2671 6D1A	ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;
2672 6D1F	ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;
2673 6D24	ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;
2674 6D29	ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;
2675 6D2E	ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;
2676 6D33	ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;
2677 6D38	ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;
2678 6D3D	ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;
2679 6D42	ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;
2680 6D47	ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;
2681 6D4C	ASSIGN (SWITCH) ROW 43 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

2682 6D51 END SEQUENCE;

2683 6D53 G010 STEP 1000;

2684 6D56 STEP 2150 CONTINUE;

2685 6D59 LET (SEQ) = 1;

2686 6D5E LET (TEST) = 15;

2687 6D63 STEP 2155 CONTINUE;

2688 6D66 LET (EPDC BUS) ROW 7 (LOW) = -1V;  
2689 6D6C LET (EPDC BUS) ROW 7 (HIGH) = 24V;  
2690 6D72 LET (EPDC BUS) ROW 8 (LOW) = -1V;  
2691 6D78 LET (EPDC BUS) ROW 8 (HIGH) = 24V;  
2692 6D7E LET (EPDC BUS) ROW 9 (LOW) = -1V;  
2693 6D85 LET (EPDC BUS) ROW 9 (HIGH) = 24V;

2694 6D8B IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

2695 6D92 ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;  
2696 6D97 ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;  
2697 6D9C ASSIGN (SWITCH) ROW 37 (NOPOWER) = ON;  
2698 6DA1 ASSIGN (SWITCH) ROW 38 (NOPOWER) = ON;  
2699 6DA6 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
2700 6DAB ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
2701 6DB0 ASSIGN (SWITCH) ROW 43 (NOPOWER) = ON;  
2702 6DB5 ASSIGN (SWITCH) ROW 44 (NOPOWER) = ON;  
2703 6DBA ASSIGN (SWITCH) ROW 41 (NOPOWER) = ON;  
2704 6DBF ASSIGN (SWITCH) ROW 42 (NOPOWER) = ON;  
2705 6DC4 ASSIGN (SWITCH) ROW 39 (NOPOWER) = ON;  
2706 6DC9 ASSIGN (SWITCH) ROW 40 (NOPOWER) = ON;  
2707 6DCE ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
2708 6DD3 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

2709 6DD8 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
2710 6DDD ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
2711 6DE2 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
2712 6DE7 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
2713 6DEC ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
2714 6DF1 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
2715 6DF6 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
2716 6DFB ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
2717 6E01 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
2718 6E06 ASSIGN (SWITCH) ROW 35 (EXPECTED) = ON;  
2719 6E0B ASSIGN (SWITCH) ROW 43 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

2720 6E10 ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;  
 2721 6E15 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;  
 2722 6E1A ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
 2723 6E1F ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;  
 2724 6E24 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;  
 2725 6E29 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;  
 2726 6E2E ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;  
 2727 6E33 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;  
 2728 6E38 ASSIGN (VALVE1) ROW 71 (EXPECTED) = ON;  
 2729 6E3D ASSIGN (VALVE1) ROW 94 (EXPECTED) = ON;  
 2730 6E42 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;  
 2731 6E47 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;  
 2732 6E4C ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;  
 2733 6E51 ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;  
 2734 6E56 ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;  
 2735 6E5B ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;  
 2736 6E60 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;  
 2737 6E65 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

2738 6E6A END SEQUENCE;

2739 6E6C IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

2740 6E73 ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;  
 2741 6E78 ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;  
 2742 6E7D ASSIGN (SWITCH) ROW 37 (NOPOWER) = ON;  
 2743 6E83 ASSIGN (SWITCH) ROW 38 (NOPOWER) = ON;  
 2744 6E88 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
 2745 6E8D ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
 2746 6E92 ASSIGN (SWITCH) ROW 43 (NOPOWER) = ON;  
 2747 6E97 ASSIGN (SWITCH) ROW 44 (NOPOWER) = ON;  
 2748 6E9C ASSIGN (SWITCH) ROW 41 (NOPOWER) = ON;  
 2749 6EA1 ASSIGN (SWITCH) ROW 42 (NOPOWER) = ON;  
 2750 6EA6 ASSIGN (SWITCH) ROW 39 (NOPOWER) = ON;  
 2751 6EAB ASSIGN (SWITCH) ROW 40 (NOPOWER) = ON;  
 2752 6EB0 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
 2753 6EB5 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

2754 6EBA ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
 2755 6EBF ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 2756 6EC4 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
 2757 6EC9 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
 2758 6ED6 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
 2759 6ED3 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
 2760 6ED8 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
 2761 6EDD ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
 2762 6EE2 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
 2763 6EE7 ASSIGN (SWITCH) ROW 36 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

2764 6EEC ASSIGN (SWITCH) ROW 43 (EXPECTED) = ON?

2765 6EF1 ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON?

2766 6EF6 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON?

2767 6EFB ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON?

2768 6F01 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON?

2769 6F06 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON?

2770 6F0B ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON?

2771 6F10 ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON?

2772 6F15 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON?

2773 6F1A ASSIGN (VALVE1) ROW 96 (EXPECTED) = ON?

2774 6F1F ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON?

2775 6F24 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON?

2776 6F29 ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON?

2777 6F2E ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON?

2778 6F33 ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON?

2779 6F38 ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON?

2780 6F3D ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON?

2781 6F42 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON?

2782 6F47 END SEQUENCE?

2783 6F49 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

2784 6F57 ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;

2785 6F5C ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;

2786 6F61 ASSIGN (SWITCH) ROW 37 (NOPOWER) = ON;

2787 6F66 ASSIGN (SWITCH) ROW 38 (NOPOWER) = ON;

2788 6F6B ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;

2789 6F70 ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;

2790 6F75 ASSIGN (SWITCH) ROW 43 (NOPOWER) = ON;

2791 6F7A ASSIGN (SWITCH) ROW 44 (NOPOWER) = ON;

2792 6F7F ASSIGN (SWITCH) ROW 41 (NOPOWER) = ON;

2793 6F85 ASSIGN (SWITCH) ROW 42 (NOPOWER) = ON;

2794 6F8A ASSIGN (SWITCH) ROW 39 (NOPOWER) = ON;

2795 6F8F ASSIGN (SWITCH) ROW 40 (NOPOWER) = ON;

2796 6F94 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;

2797 6F99 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

2798 6F9E ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;

2799 6FA3 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;

2800 6FA6 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;

2801 6FAD ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;

2802 6FB2 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;

2803 6FB7 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;

2804 6FBC ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;

2805 6FC1 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;

2806 6FC6 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;

2807 6FCB ASSIGN (SWITCH) ROW 43 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

2808 6FD0 END SEQUENCE;

2809 6FD2 GOTO STEP 1000;

2810 6FD5 STEP 2160 CONTINUE;

2811 6FD8 LET (SEQ) = 1;

2812 6FDD LET (TEST) = 16;

2813 6FE2 STEP 2165 CONTINUE;

2814 6FES LET (EPDC BUS) ROW 8 (LOW) = -1V;

2815 6FEB LET (EPDC BUS) ROW 8 (HIGH) = 24V;

2816 6FF1 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

2817 6FF8 ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;

2818 6FFD ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;

2819 7003 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;

2820 7008 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;

2821 700D ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;

2822 7012 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;

2823 7017 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;

2824 701C ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;

2825 7021 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;

2826 7026 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;

2827 702B ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;

2828 7030 ASSIGN (SWITCH) ROW 35 (EXPECTED) = ON;

2829 7035 ASSIGN (SWITCH) ROW 37 (EXPECTED) = ON;

2830 703A ASSIGN (SWITCH) ROW 40 (EXPECTED) = ON;

2831 703F ASSIGN (SWITCH) ROW 42 (EXPECTED) = ON;

2832 7044 ASSIGN (SWITCH) ROW 45 (EXPECTED) = ON;

2833 7049 ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;

2834 704E ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;

2835 7053 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;

2836 7058 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;

2837 705D ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;

2838 7062 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;

2839 7067 ASSIGN (VALVE1) ROW 22 (EXPECTED) = ON;

2840 706C ASSIGN (VALVE1) ROW 24 (EXPECTED) = ON;

2841 7071 ASSIGN (VALVE1) ROW 26 (EXPECTED) = ON;

2842 7076 ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;

2843 707B ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;

2844 7081 ASSIGN (VALVE1) ROW 37 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

2845 7086 ASSIGN (VALVE1) ROW 46 (EXPECTED) = ON;  
 2846 7088 ASSIGN (VALVE1) ROW 48 (EXPECTED) = ON;  
 2847 7090 ASSIGN (VALVE1) ROW 55 (EXPECTED) = ON;  
 2848 7095 ASSIGN (VALVE1) ROW 57 (EXPECTED) = ON;  
 2849 709A ASSIGN (VALVE1) ROW 71 (EXPECTED) = ON;  
 2850 709F ASSIGN (VALVE1) ROW 72 (EXPECTED) = ON;  
 2851 70A4 ASSIGN (VALVE1) ROW 81 (EXPECTED) = ON;  
 2852 70A9 ASSIGN (VALVE1) ROW 83 (EXPECTED) = ON;  
 2853 70AE ASSIGN (VALVE1) ROW 94 (EXPECTED) = ON;  
 2854 70B3 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;  
 2855 70B8 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;  
 2856 70BB ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;  
 2857 70C2 ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;  
 2858 70C7 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;  
 2859 70CC ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;  
 2860 70D1 ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;  
 2861 70D6 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;  
 2862 70DB ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;  
 2863 70E0 ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;  
 2864 70E5 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;  
 2865 70EA ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

2866 70EF END SEQUENCE;

2867 70F1 IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

2868 70F8 ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;  
 2869 70FD ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;

2870 7103 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
 2871 7108 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 2872 7110 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
 2873 7112 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
 2874 7117 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
 2875 711C ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
 2876 7121 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
 2877 7126 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
 2878 712B ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
 2879 7130 ASSIGN (SWITCH) ROW 36 (EXPECTED) = ON;  
 2880 7155 ASSIGN (SWITCH) ROW 38 (EXPECTED) = ON;  
 2881 713A ASSIGN (SWITCH) ROW 44 (EXPECTED) = ON;

2882 713F ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;  
 2883 7144 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;  
 2884 7149 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
 2885 714E ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;  
 2886 7153 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;  
 2887 7158 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;  
 2888 715D ASSIGN (VALVE1) ROW 21 (EXPECTED) = ON;



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

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EXPANDED SOURCE STATEMENT
2889 7162 ASSIGN (VALVE1) ROW 23 (EXPECTED) = ON;
2890 7167 ASSIGN (VALVE1) ROW 25 (EXPECTED) = ON;
2891 716C ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;
2892 7171 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;
2893 7176 ASSIGN (VALVE1) ROW 65 (EXPECTED) = ON;
2894 7178 ASSIGN (VALVE1) ROW 66 (EXPECTED) = ON;
2895 7181 ASSIGN (VALVE1) ROW 83 (EXPECTED) = ON;
2896 7186 ASSIGN (VALVE1) ROW 85 (EXPECTED) = ON;
2897 718B ASSIGN (VALVE1) ROW 96 (EXPECTED) = ON;
2898 7190 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;
2899 7195 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;
2900 719A ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;
2901 719F ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;
2902 71A4 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;
2903 71A9 ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;
2904 71AE ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;
2905 71B3 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;
2906 71B8 ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;
2907 71BD ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;
2908 71C2 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;
2909 71C7 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

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2910 71CC END SEQUENCE;

2911 71CE IF (SEQ) = 3 OR (SEQ) = .4 THEN

BEGIN SEQUENCE;

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2912 71DC ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;
2913 71E1 ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;

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2914 71E6 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;
2915 71EB ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;
2916 71F0 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;
2917 71F5 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;
2918 71FA ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;
2919 71FF ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;
2920 7205 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;
2921 720A ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;
2922 720F ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;

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2923 7214 END SEQUENCE;

2924 7216 GOTO STEP 1000;

2925 7219 STEP 2170 CONTINUE;

2926 721C LET (SEQ) = 1;

2927 7221 LET (TFST) = 17;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

~~2928 7226 STEP 2475 CONTINUE;~~

2929 7229 LET (EPDC BUS) ROW 9 (LOW) = 1V;  
2930 722F LET (EPDC BUS) ROW 8 (HIGH) = 24V;  
2931 7235 LET (EPDC BUS) ROW 9 (LOW) = 1V;  
2932 723B LET (EPDC BUS) ROW 9 (HIGH) = 24V;

2933 7241 IF (SER) = 1 THEN

BEGIN SEQUENCE;

2934 7248 ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;  
~~2935 7248 ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;~~

2936 7252 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
2937 7257 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
2938 7256 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
2939 7261 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
2940 7266 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
2941 726B ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
2942 7270 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
2943 7275 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
2944 727A ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
2945 727F ASSIGN (SWITCH) ROW 35 (EXPECTED) = ON;  
2946 7285 ASSIGN (SWITCH) ROW 37 (EXPECTED) = ON;  
2947 728A ASSIGN (SWITCH) ROW 40 (EXPECTED) = ON;  
2948 728F ASSIGN (SWITCH) ROW 42 (EXPECTED) = ON;

2949 7294 ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;  
2950 7299 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;  
2951 729E ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
2952 72A3 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;  
2953 72A8 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;  
2954 72AD ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;  
2955 72B2 ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;  
2956 72B7 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;  
2957 72BC ASSIGN (VALVE1) ROW 55 (EXPECTED) = ON;  
2958 72C1 ASSIGN (VALVE1) ROW 57 (EXPECTED) = ON;  
2959 72C6 ASSIGN (VALVE1) ROW 71 (EXPECTED) = ON;  
2960 72CB ASSIGN (VALVE1) ROW 72 (EXPECTED) = ON;  
2961 72D0 ASSIGN (VALVE1) ROW 81 (EXPECTED) = ON;  
2962 72D5 ASSIGN (VALVE1) ROW 93 (EXPECTED) = ON;  
2963 72DA ASSIGN (VALVE1) ROW 94 (EXPECTED) = ON;  
2964 72DF ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;  
2965 72E4 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;  
2966 72E9 ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;  
2967 72EE ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;  
2968 72F3 ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;  
2969 72F8 ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;  
2970 72FD ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
2971 7303 ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;  
2972 7308 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;  
2973 730D ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

2974 7312 END SEQUENCE;

2975 7314 IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

2976 731B ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;  
2977 7320 ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;

2978 7325 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
2979 732A ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
2980 732F ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
2981 7334 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
2982 7339 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
2983 733E ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
2984 7343 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
2985 7348 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
2986 734D ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
2987 7352 ASSIGN (SWITCH) ROW 36 (EXPECTED) = ON;  
2988 7357 ASSIGN (SWITCH) ROW 38 (EXPECTED) = ON;

2989 735C ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;  
2990 7361 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;  
2991 7366 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
2992 736B ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;  
2993 7370 ASSIGN (VALVE1) ROW 15 (EXPECTED) = ON;  
2994 7375 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;  
2995 737A ASSIGN (VALVE1) ROW 25 (EXPECTED) = ON;  
2996 737F ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;  
2997 7385 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;  
2998 738A ASSIGN (VALVE1) ROW 65 (EXPECTED) = ON;  
2999 738F ASSIGN (VALVE1) ROW 83 (EXPECTED) = ON;  
3000 7394 ASSIGN (VALVE1) ROW 95 (EXPECTED) = ON;  
3001 7399 ASSIGN (VALVE1) ROW 96 (EXPECTED) = ON;  
3002 739E ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;  
3003 73A3 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;  
3004 73AB ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;  
3005 73AD ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;  
3006 73B2 ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;  
3007 73B7 ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;  
3008 73BC ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;  
3009 73C1 ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;  
3010 73C6 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;  
3011 73CB ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

3012 73D0 END SEQUENCE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISW ADDR EXPANDED SOURCE STATEMENT  
3013 73D2 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE:

3014 73E0 ASSIGN (SWITCH) ROW 9 (NPOWER) = ON;  
 3015 73E5 ASSIGN (SWITCH) ROW 10 (NPOWER) = ON;  
 3016 73EA ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
 3017 73EF ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 3018 73F4 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
 3019 73F9 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
 3020 73FE ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
 3021 7404 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
 3022 7409 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
 3023 740E ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
 3024 7413 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;

3025 7418 END SEQUENCE;

3026 741A GOTO STEP 1000;

3027 741D STEP 2180 CONTINUE;

3028 7420 LET (SEQ) = 1;

3029 7425 LET (TEST) = 18;

3030 742A STEP 2185 CONTINUE;

3031 742D LET (EPDC BUS) ROW 9 (LOW) = -1V;

3032 7433 LET (EPDC BUS) ROW 9 (HIGH) = 24V;

3033 7439 IF (SEQ) = 1 THEN

BEGIN SEQUENCE:

3034 7440 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
 3035 7445 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 3036 744A ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
 3037 744F ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
 3038 7454 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
 3039 7459 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
 3040 745E ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
 3041 7463 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
 3042 7468 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
 3043 746D ASSIGN (SWITCH) ROW 35 (EXPECTED) = ON;  
 3044 7472 ASSIGN (SWITCH) ROW 37 (EXPECTED) = ON;  
 3045 7477 ASSIGN (SWITCH) ROW 40 (EXPECTED) = ON;  
 3046 747C ASSIGN (SWITCH) ROW 42 (EXPECTED) = ON;

VAEA6 - V1161/CIIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

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3047 7482 ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;
3048 7487 ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;
3049 748C ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;
3050 7491 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;
3051 7496 ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;
3052 749B ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;
3053 74A0 ASSIGN (VALVE1) ROW 22 (EXPECTED) = ON;
3054 74A5 ASSIGN (VALVE1) ROW 24 (EXPECTED) = ON;
3055 74AA ASSIGN (VALVE1) ROW 26 (EXPECTED) = ON;
3056 74AF ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;
3057 74B4 ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;
3058 74B9 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;
3059 74BE ASSIGN (VALVE1) ROW 37 (EXPECTED) = ON;
3060 74C3 ASSIGN (VALVE1) ROW 48 (EXPECTED) = ON;
3061 74C8 ASSIGN (VALVE1) ROW 55 (EXPECTED) = ON;
3062 74CD ASSIGN (VALVE1) ROW 56 (EXPECTED) = ON;
3063 74D2 ASSIGN (VALVE1) ROW 57 (EXPECTED) = ON;
3064 74D7 ASSIGN (VALVE1) ROW 58 (EXPECTED) = ON;
3065 74DC ASSIGN (VALVE1) ROW 71 (EXPECTED) = ON;
3066 74E1 ASSIGN (VALVE1) ROW 72 (EXPECTED) = ON;
3067 74E6 ASSIGN (VALVE1) ROW 81 (EXPECTED) = ON;
3068 74EB ASSIGN (VALVE1) ROW 82 (EXPECTED) = ON;
3069 74F0 ASSIGN (VALVE1) ROW 93 (EXPECTED) = ON;
3070 74F5 ASSIGN (VALVE1) ROW 94 (EXPECTED) = ON;
3071 74FA ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;
3072 74FF ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;
3073 7505 ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;
3074 750A ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;
3075 750F ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;
3076 7514 ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;
3077 7519 ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;
3078 751E ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;
3079 7523 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;
3080 7528 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

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3081 752D END SEQUENCE;

3082 752F IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

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3083 7536 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;
3084 753B ASSIGN (SWITCH) ROW 4 (EXPECTED) = ON;
3085 7540 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;
3086 7545 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;
3087 754A ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;
3088 754F ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;
3089 7554 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;
3090 7559 ASSIGN (SWITCH) ROW 16 (EXPECTED) = ON;
3091 755E ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;
3092 7563 ASSIGN (SWITCH) ROW 36 (EXPECTED) = ON;

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VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

IC  
 ISN ADDR EXPANDED SOURCE STATEMENT  
 3093 7568 ASSIGN (SWITCH) ROW 38 (EXPECTED) = ON;

3094 756D ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;  
 3095 7572 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
 3096 7577 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;  
 3097 757C ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;  
 3098 7582 ASSIGN (VALVE1) ROW 20 (EXPECTED) = ON;  
 3099 7587 ASSIGN (VALVE1) ROW 21 (EXPECTED) = ON;  
 3100 758C ASSIGN (VALVE1) ROW 23 (EXPECTED) = ON;  
 3101 7591 ASSIGN (VALVE1) ROW 25 (EXPECTED) = ON;  
 3102 7596 ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;  
 3103 759B ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;  
 3104 75A0 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;  
 3105 75A5 ASSIGN (VALVE1) ROW 65 (EXPECTED) = ON;  
 3106 75AA ASSIGN (VALVE1) ROW 83 (EXPECTED) = ON;  
 3107 75AF ASSIGN (VALVE1) ROW 84 (EXPECTED) = ON;  
 3108 75B4 ASSIGN (VALVE1) ROW 95 (EXPECTED) = ON;  
 3109 75B9 ASSIGN (VALVE1) ROW 96 (EXPECTED) = ON;  
 3110 75BE ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;  
 3111 75C3 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;  
 3112 75C8 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;  
 3113 75CD ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;  
 3114 75D2 ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;  
 3115 75D7 ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;  
 3116 75DC ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;  
 3117 75E1 ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

3118 75E6 END SEQUENCE;

3119 75E8 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

3120 75F6 END SEQUENCE;

3121 75F8 GOTO STEP 1000;

3122 75FB STEP 2190 CONTINUE;

3123 75FE LET (SEQ) = 1;

3124 7604 LET (TEST) = 19;

3125 7609 STEP 2195 CONTINUE;

3126 760C LET (EPDC BUS) ROW 7 (LOW) = -1V;

3127 7612 LET (EPDC BUS) ROW 7 (HIGH) = 24V;

3128 7618 LET (EPDC BUS) ROW 9 (LOW) = -1V;

3129 761E LET (EPDC BUS) ROW 9 (HIGH) = 24V;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT  
3130 7624 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

3131 762B ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
3132 7630 ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
3133 7635 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
3134 763A ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

3135 763F ASSIGN (SWITCH) ROW 35 (EXPECTED) = ON;  
3136 7644 ASSIGN (SWITCH) ROW 37 (EXPECTED) = ON;  
3137 7649 ASSIGN (SWITCH) ROW 40 (EXPECTED) = ON;  
3138 764E ASSIGN (SWITCH) ROW 42 (EXPECTED) = ON;

3139 7653 ASSIGN (VALVE1) ROW 26 (EXPECTED) = ON;  
3140 7658 ASSIGN (VALVE1) ROW 56 (EXPECTED) = ON;  
3141 765D ASSIGN (VALVE1) ROW 58 (EXPECTED) = ON;  
3142 7662 ASSIGN (VALVE1) ROW 71 (EXPECTED) = ON;  
3143 7667 ASSIGN (VALVE1) ROW 82 (EXPECTED) = ON;  
3144 766C ASSIGN (VALVE1) ROW 94 (EXPECTED) = ON;

3145 7671 END SEQUENCE;

3146 7673 IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

3147 767A ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
3148 767F ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
3149 7685 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
3150 768A ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

3151 768F ASSIGN (SWITCH) ROW 36 (EXPECTED) = ON;  
3152 7694 ASSIGN (SWITCH) ROW 38 (EXPECTED) = ON;

3153 7699 ASSIGN (VALVE1) ROW 23 (EXPECTED) = ON;  
3154 769E ASSIGN (VALVE1) ROW 84 (EXPECTED) = ON;  
3155 76A5 ASSIGN (VALVE1) ROW 96 (EXPECTED) = ON;

3156 76A8 END SEQUENCE;

3157 76AA IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

3158 76B8 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
3159 76BD ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
3160 76C2 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
3161 76C7 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISH ADDR EXPANDED SOURCE STATEMENT  
3162 76CC END SEQUENCE;

3163 76CE GOTO STEP 1000;

3164 76D1 STEP 2200 CONTINUE;

3165 76D4 LET (SEQ) = 1;

3166 76D9 LET (TEST) = 20;

3167 76DE STEP 2205 CONTINUE;

3168 76E1 LET (EPDC BUS) ROW 1 (LOW) = -1V;  
3169 76E7 LET (EPDC BUS) ROW 1 (HIGH) = -24V;  
3170 76ED LET (EPDC BUS) ROW 4 (LOW) = -1V;  
3171 76F3 LET (EPDC BUS) ROW 4 (HIGH) = -24V;  
3172 76F9 LET (EPDC BUS) ROW 7 (LOW) = -1V;  
3173 76FF LET (EPDC BUS) ROW 7 (HIGH) = -24V;

3174 7706 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

3175 7700 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
3176 7712 ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;  
3177 7717 ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
3178 771C ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
3179 7721 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
3180 7726 ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
3181 772B ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
3182 7730 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

3183 7735 ASSIGN (SWITCH) ROW 19 (NOPOWER2) = ON;  
3184 773A ASSIGN (SWITCH) ROW 19 (NOPOWER) = ON;  
3185 773F ASSIGN (SWITCH) ROW 20 (NOPOWER) = ON;  
3186 7744 ASSIGN (SWITCH) ROW 19 (EXPECTED) = ON;  
3187 7749 ASSIGN (SWITCH) ROW 25 (EXPECTED) = ON;  
3188 774E ASSIGN (SWITCH) ROW 35 (EXPECTED) = ON;

3189 7753 ASSIGN (VALVE1) ROW 3 (NOPOWER) = ON;  
3190 7758 LET (NVDATA) = 1;  
3191 775D ASSIGN (VALVE1) ROW 4 (NOPOWER) = ON;  
3192 7762 ASSIGN (VALVE1) ROW 6 (NOPOWER) = ON;  
3193 7767 ASSIGN (VALVE1) ROW 25 (NOPOWER) = ON;  
3194 776C ASSIGN (VALVE1) ROW 61 (NOPOWER) = ON;  
3195 7771 ASSIGN (VALVE1) ROW 67 (NOPOWER) = ON;  
3196 7776 ASSIGN (VALVE1) ROW 85 (NOPOWER) = ON;  
3197 777B ASSIGN (VALVE1) ROW 86 (NOPOWER) = ON;

3198 7781 END SEQUENCE;



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
3199 7783 IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

3200 778A ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
3201 778F ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;  
3202 7794 ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
3203 7799 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
3204 779E ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
3205 77A3 ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
3206 77A8 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
3207 77AD ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

3208 77B2 ASSIGN (SWITCH) ROW 19 (NOPOWER2) = ON;  
3209 77B7 ASSIGN (SWITCH) ROW 19 (NOPOWER) = ON;  
3210 77BC ASSIGN (SWITCH) ROW 20 (NOPOWER) = ON;  
3211 77C1 ASSIGN (SWITCH) ROW 20 (EXPECTED) = ON;  
3212 77C6 ASSIGN (SWITCH) ROW 26 (EXPECTED) = ON;  
3213 77CB ASSIGN (SWITCH) ROW 36 (EXPECTED) = ON;

3214 77D0 ASSIGN (VALVE1) ROW 3 (NOPOWER) = ON;  
3215 77D5 LFT (NVDATA) = 1;  
3216 77DA ASSIGN (VALVE1) ROW 4 (NOPOWER) = ON;  
3217 77DF ASSIGN (VALVE1) ROW 5 (EXPECTED) = ON;  
3218 77E4 ASSIGN (VALVE1) ROW 6 (NOPOWER) = ON;  
3219 77E9 ASSIGN (VALVE1) ROW 15 (EXPECTED) = ON;  
3220 77EE ASSIGN (VALVE1) ROW 25 (NOPOWER) = ON;  
3221 77F3 ASSIGN (VALVE1) ROW 61 (NOPOWER) = ON;  
3222 77F8 ASSIGN (VALVE1) ROW 63 (EXPECTED) = ON;  
3223 77FD ASSIGN (VALVE1) ROW 66 (EXPECTED) = ON;  
3224 7803 ASSIGN (VALVE1) ROW 67 (NOPOWER) = ON;  
3225 7808 ASSIGN (VALVE1) ROW 83 (NOPOWER) = ON;  
3226 780D ASSIGN (VALVE1) ROW 86 (NOPOWER) = ON;

3227 7912 END SEQUENCE;

3228 7814 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

3229 7822 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
3230 7827 ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;  
3231 782C ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
3232 7831 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
3233 7836 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
3234 783B ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
3235 7840 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
3236 7845 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

3237 784A ASSIGN (SWITCH) ROW 19 (NOPOWER2) = ON;  
3238 784F ASSIGN (SWITCH) ROW 19 (NOPOWER) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
3239 7854 ASSIGN (SWITCH) ROW 20 (NOPOWER) = ON;

3240 7859 END SEQUENCE;

3241 785B GOTO STEP 103D;

3242 785E STEP 2210 CONTINUE;

3243 7861 LET (SEQ) = 1;

3244 7866 LET (TEST) = 21;

3245 786B STEP 2215 CONTINUE;

3246 786E LET (EPDC BUS) ROW 5 (LOW) = -1V;

3247 7874 LET (EPDC BUS) ROW 5 (HIGH) = 24V;

3248 787A LET (EPDC BUS) ROW 7 (LOW) = -1V;

3249 7881 LET (EPDC BUS) ROW 7 (HIGH) = 24V;

3250 7887 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

3251 788E ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;

3252 7893 ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;

3253 7898 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;

3254 789D ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

3255 78A2 ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;

3256 78A7 ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

3257 78AC ASSIGN (SWITCH) ROW 25 (EXPECTED) = ON;

3258 78B7 ASSIGN (SWITCH) ROW 49 (EXPECTED) = ON;

3259 78B6 ASSIGN (VALVE1) ROW 16 (EXPECTED) = ON;

3260 78BB ASSIGN (VALVE1) ROW 59 (EXPECTED) = ON;

3261 78C0 ASSIGN (VALVE1) ROW 60 (EXPECTED) = ON;

3262 78C5 ASSIGN (VALVE1) ROW 69 (EXPECTED) = ON;

3263 78CA ASSIGN (VALVE1) ROW 89 (EXPECTED) = ON;

3264 78CF END SEQUENCE;

3265 78D1 IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

3266 78D8 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;

3267 78DD ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;

3268 78E2 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;

3269 78E7 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

3270 78EC ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;

3271 78F1 ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

3272 78F6 ASSIGN (SWITCH) ROW 76 (EXPECTED) = ON;

3273 78F8 ASSIGN (VALVE1) ROW 13 (EXPECTED) = ON;

3274 7901 ASSIGN (VALVE1) ROW 63 (EXPECTED) = ON;

3275 7906 ASSIGN (VALVE1) ROW 64 (EXPECTED) = ON;

3276 7908 ASSIGN (VALVE1) ROW 91 (EXPECTED) = ON;

3277 7910 END SEQUENCE;

3278 7912 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

3279 7920 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;

3280 7925 ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;

3281 792A ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;

3282 792F ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

3283 7934 ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;

3284 7939 ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

3285 793E END SEQUENCE;

3286 7940 GOTO STEP 1000;

3287 7943 STEP 2220 CONTINUE;

3288 7946 LET (SEQ) = 1;

3289 7948 LET (TEST) = 22;

3290 7950 STEP 2225 CONTINUE;

3291 7953 LET (EPDC BUS) ROW 1 (LOW) = -1V;

3292 7959 LET (EPDC BUS) ROW 1 (HIGH) = 24V;

3293 795F LET (EPDC BUS) ROW 3 (LOW) = -1V;

3294 7965 LET (EPDC BUS) ROW 3 (HIGH) = 24V;

3295 7968 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

3296 7972 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;

3297 7977 ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;

3298 797C ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;

3299 7982 ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;

3300 7987 ASSIGN (SWITCH) ROW 19 (EXPECTED) = ON;

3301 798C ASSIGN (SWITCH) ROW 21 (EXPECTED) = ON;

3302 7991 ASSIGN (SWITCH) ROW 23 (EXPECTED) = ON;

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAE6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

3303 7996 ~~ASSIGN (VALVE1) ROW 6 (EXPECTED) = ON;~~  
3304 7998 ASSIGN (VALVE1) ROW 68 (EXPECTED) = ON;  
3305 79A0 ~~ASSIGN (VALVE1) ROW 74 (EXPECTED) = ON;~~  
3306 79A5 ASSIGN (VALVE1) ROW 86 (EXPECTED) = ON;

3307 79AA END SEQUENCE;

3308 79AC IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

3309 79B3 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
3310 79B8 ~~ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;~~  
3311 79B0 ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;  
3312 79C2 ~~ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;~~

3313 79C7 ~~ASSIGN (SWITCH) ROW 20 (EXPECTED) = ON;~~  
3314 79CC ASSIGN (SWITCH) ROW 22 (EXPECTED) = ON;  
3315 79D4 ~~ASSIGN (SWITCH) ROW 24 (EXPECTED) = ON;~~

3316 79D6 ~~ASSIGN (VALVE1) ROW 3 (EXPECTED) = ON;~~  
3317 79DB ASSIGN (VALVE1) ROW 33 (EXPECTED) = ON;  
3318 79E0 ~~ASSIGN (VALVE1) ROW 76 (EXPECTED) = ON;~~  
3319 79E5 ASSIGN (VALVE1) ROW 88 (EXPECTED) = ON;

3320 79EA END SEQUENCE;

3321 79EC IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

3322 79FA ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
3323 79FF ~~ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;~~  
3324 7A05 ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;  
3325 7A0A ~~ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;~~

3326 7A0F ~~ASSIGN (SWITCH) ROW 24 (EXPECTED) = ON;~~

3327 7A14 END SEQUENCE;

3328 7A16 GOTO STEP 1000;

3329 7A19 STEP 2230 CONTINUE;

3330 7A1C LET (SEQ) = 1;

3331 7A21 LET (TEST) = 23;

3332 7A26 STEP 2235 CONTINUE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

~~3333 7A29 LET (EPDC BUS) ROW 1 (LOW) = 1V;  
3334 7A2F LET (EPDC BUS) ROW 1 (HIGH) = 24V;  
3335 7A35 LET (EPDC BUS) ROW 8 (LOW) = 1V;  
3336 7A3B LET (EPDC BUS) ROW 8 (HIGH) = 24V;~~

3337 7A41 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

~~3338 7A48 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
3339 7A4B ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;  
3340 7A52 ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;  
3341 7A57 ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;~~

~~3342 7A5C ASSIGN (SWITCH) ROW 35 (NOPOWER2) = ON;  
3343 7A61 ASSIGN (SWITCH) ROW 35 (VOPOWER) = ON;  
3344 7A66 ASSIGN (SWITCH) ROW 36 (NOPOWER) = ON;  
3345 7A6B ASSIGN (SWITCH) ROW 35 (EXPECTED) = ON;~~

3346 7A70 ASSIGN (VALVE1) ROW 23 (NOPOWER) = ON;

3347 7A75 LET (NVDATA) = 1;

~~3348 7A7A ASSIGN (VALVE1) ROW 24 (NOPOWER) = ON;  
3349 7A7F ASSIGN (VALVE1) ROW 25 (NOPOWER) = ON;  
3350 7A85 ASSIGN (VALVE1) ROW 26 (NOPOWER) = ON;  
3351 7A8A ASSIGN (VALVE1) ROW 65 (VOPOWER) = ON;  
3352 7A8F ASSIGN (VALVE1) ROW 66 (NOPOWER) = ON;  
3353 7A94 ASSIGN (VALVE1) ROW 72 (NOPOWER) = ON;  
3354 7A99 ASSIGN (VALVE1) ROW 93 (NOPOWER) = ON;  
3355 7A9E ASSIGN (VALVE1) ROW 95 (VOPOWER) = ON;~~

~~3356 7AA3 END SEQUENCE;~~

3357 7AA5 IF (SEQ) = ? THEN

BEGIN SEQUENCE;

~~3358 7AAC ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
3359 7AB1 ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;  
3360 7AB6 ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;  
3361 7ABB ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;~~

~~3362 7AC0 ASSIGN (SWITCH) ROW 35 (NOPOWER2) = ON;  
3363 7AC5 ASSIGN (SWITCH) ROW 35 (NOPOWER) = ON;  
3364 7ACA ASSIGN (SWITCH) ROW 36 (NOPOWER) = ON;  
3365 7ACF ASSIGN (SWITCH) ROW 36 (EXPECTED) = ON;~~

~~3366 7AD4 ASSIGN (VALVE1) ROW 23 (NOPOWER) = ON;  
3367 7AD9 LET (NVDATA) = 1;  
3368 7ADE ASSIGN (VALVE1) ROW 24 (NOPOWER) = ON;  
3369 7AE3 ASSIGN (VALVE1) ROW 25 (NOPOWER) = ON;~~

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

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ISN ADDR EXPANDED SOURCE STATEMENT
3370 7AE8 ASSIGN (VALVE1) ROW 26 (NOPOWER) = ON;
3371 7AED ASSIGN (VALVE1) ROW 65 (NOPOWER) = ON;
3372 7AF2 ASSIGN (VALVE1) ROW 66 (NOPOWER) = ON;
3373 7AF7 ASSIGN (VALVE1) ROW 72 (NOPOWER) = ON;
3374 7AFC ASSIGN (VALVE1) ROW 93 (NOPOWER) = ON;
3375 7B02 ASSIGN (VALVE1) ROW 95 (NOPOWER) = ON;

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3376 7B07 END SEQUENCE;

3377 7B09 IF (SEQ) = 3-OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

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3378 7B17 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;
3379 7B1C ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;
3380 7B21 ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;
3381 7B26 ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;

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3382 7B2B ASSIGN (SWITCH) ROW 35 (NOPOWER2) = ON;
3383 7B30 ASSIGN (SWITCH) ROW 35 (NOPOWER) = ON;
3384 7B35 ASSIGN (SWITCH) ROW 36 (NOPOWER) = ON;

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3385 7B3A END SEQUENCE;

3386 7B3C GOTO STEP 1000;

3387 7B3F STEP 2240 CONTINUE;

3388 7B42 LET (SEQ) = 1;

3389 7B47 LET (TEST) = 24;

3390 7B4C STEP 2245 CONTINUE;

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3391 7B4F LET (EPDC BUS) ROW 4 (LOW) = -1V;
3392 7B55 LET (EPDC BUS) ROW 4 (HIGH) = 24V;
3393 7B5B LET (EPDC BUS) ROW 6 (LOW) = -1V;
3394 7B61 LET (EPDC BUS) ROW 6 (HIGH) = 24V;

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3395 7B67 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

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3396 7B6E ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;
3397 7B73 ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;
3398 7B78 ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;
3399 7B7D ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;
3400 7B83 ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;
3401 7B88 ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;

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3402 7B8D ASSIGN (SWITCH) ROW 25 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
3403 7B92 ASSIGN (SWITCH) ROW 27 (EXPECTED) = ON;

3404 7B97 ASSIGN (VALVE1) ROW 16 (EXPECTED) = ON;  
3405 7B9C ASSIGN (VALVE1) ROW 70 (EXPECTED) = ON;  
3406 7BA1 ASSIGN (VALVE1) ROW 78 (EXPECTED) = ON;  
3407 7BA6 ASSIGN (VALVE1) ROW 90 (EXPECTED) = ON;

3408 7BAB END SEQUENCE;

3409 7BAD IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

3410 7BB4 ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;  
3411 7BB9 ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;  
3412 7BBE ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
3413 7BC3 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
3414 7BC8 ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;  
3415 7BCD ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;

3416 7BD2 ASSIGN (SWITCH) ROW 26 (EXPECTED) = ON;  
3417 7BD7 ASSIGN (SWITCH) ROW 28 (EXPECTED) = ON;

3418 7BDC ASSIGN (VALVE1) ROW 13 (EXPECTED) = ON;  
3419 7BE1 ASSIGN (VALVE1) ROW 80 (EXPECTED) = ON;  
3420 7BE6 ASSIGN (VALVE1) ROW 92 (EXPECTED) = ON;

3421 7BEB END SEQUENCE;

3422 7BED IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

3423 7BFB ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;  
3424 7C01 ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;  
3425 7C06 ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
3426 7C0B ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
3427 7C10 ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;  
3428 7C15 ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;

3429 7C1A END SEQUENCE;

3430 7C1C GOTO STEP 1000;

3431 7C1F STEP 2250 CONTINUE;

3432 7C22 LET (SEQ) = 1;

3433 7C27 LET (IFST) = 25;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
3434 7C2C STEP 2255 CONTINUE;

3435 7C2F LET (EPDC BUS) ROW 2 (LOW) = -1V;  
3436 7C35 LET (EPDC BUS) ROW 2 (HIGH) = 24V;  
3437 7C3B LET (EPDC BUS) ROW 4 (LOW) = -1V;  
3438 7C41 LET (EPDC BUS) ROW 4 (HIGH) = 24V;

3439 7C47 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

3440 7C4E ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
3441 7C53 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
3442 7C58 ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;  
3443 7C5D ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;

3444 7C62 ASSIGN (SWITCH) ROW 19 (EXPECTED) = ON;

3445 7C67 ASSIGN (VALVE1) ROW 6 (EXPECTED) = ON;  
3446 7C6C ASSIGN (VALVE1) ROW 67 (EXPECTED) = ON;  
3447 7C71 ASSIGN (VALVE1) ROW 85 (EXPECTED) = ON;

3448 7C76 END SEQUENCE;

3449 7C78 IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

3450 7C7F ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
3451 7C85 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
3452 7C8A ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;  
3453 7C8F ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;

3454 7C94 ASSIGN (SWITCH) ROW 20 (EXPECTED) = ON;

3455 7C99 ASSIGN (VALVE1) ROW 3 (EXPECTED) = ON;  
3456 7C9E ASSIGN (VALVE1) ROW 61 (EXPECTED) = ON;  
3457 7CA3 ASSIGN (VALVE1) ROW 62 (EXPECTED) = ON;  
3458 7CA8 ASSIGN (VALVE1) ROW 87 (EXPECTED) = ON;

3459 7CAD END SEQUENCE;

3460 7CAF IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

3461 7CBD ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
3462 7CC2 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
3463 7CC7 ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;  
3464 7CCC ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

3465 7C01 END SEQUENCE;

3466 7C03 GO TO STEP 1000;

3467 7C06 STEP 2260 CONTINUE;

3468 7C09 LET (SEQ) = 1;

3469 7C0E LET (IFST) = 26;

3470 7C03 STEP 2265 CONTINUE;

3471 7C06 LET (EPDC BUS) ROW 1 (LOW) = 1V;

3472 7C0C LET (EPDC BUS) ROW 1 (HIGH) = 24V;

3473 7C12 LET (EPDC BUS) ROW 9 (LOW) = 1V;

3474 7C18 LET (EPDC BUS) ROW 9 (HIGH) = 24V;

3475 7C1E IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

3476 7D06 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;

3477 7D0B ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;

3478 7D10 ASSIGN (SWITCH) ROW 35 (EXPECTED) = ON;

3479 7D15 ASSIGN (VALVE1) ROW 24 (EXPECTED) = ON;

3480 7D1A ASSIGN (VALVE1) ROW 72 (EXPECTED) = ON;

3481 7D1F ASSIGN (VALVE1) ROW 93 (EXPECTED) = ON;

3482 7D24 END SEQUENCE;

3483 7D26 IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

3484 7D2D ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;

3485 7D32 ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;

3486 7D37 ASSIGN (SWITCH) ROW 36 (EXPECTED) = ON;

3487 7D3C ASSIGN (VALVE1) ROW 23 (EXPECTED) = ON;

3488 7D41 ASSIGN (VALVE1) ROW 25 (EXPECTED) = ON;

3489 7D46 ASSIGN (VALVE1) ROW 65 (EXPECTED) = ON;

3490 7D4B ASSIGN (VALVE1) ROW 95 (EXPECTED) = ON;

3491 7D50 END SEQUENCE;

3492 7D52 IF (SEQ) = 3 OR (SEQ) = 4 THEN

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT  
BEGIN SEQUENCE;

3493 7D60 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
3494 7D65 ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;

3495 7D6A END SEQUENCE;

3496 7D6C GOTO STEP 1000;

3497 7D6F STEP 2270 CONTINUE;

3498 7D72 LET (SEQ) = 1;

3499 7D77 LET (TEST) = 27;

3500 7D7C STEP 2275 CONTINUE;

3501 7D7F LET (EPDC BUS) ROW 3 (LOW) = -1V;  
3502 7D86 LET (EPDC BUS) ROW 3 (HIGH) = 24V;  
3503 7D8C LET (EPDC BUS) ROW 4 (LOW) = -1V;  
3504 7D92 LET (EPDC BUS) ROW 4 (HIGH) = 24V;

3505 7D98 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

3506 7D9F ASSIGN (SWITCH) ROW 11 (NOPOWER) = ON;  
3507 7DA4 ASSIGN (SWITCH) ROW 12 (NOPOWER) = ON;  
3508 7DA9 ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
3509 7DAE ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
3510 7DB3 ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;  
3511 7DB8 ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;

3512 7DBD ASSIGN (SWITCH) ROW 19 (EXPECTED) = ON;

3513 7DC2 ASSIGN (VALVE1) ROW 4 (EXPECTED) = ON;

3514 7DC7 ASSIGN (VALVE1) ROW 67 (EXPECTED) = ON;

3515 7DCC ASSIGN (VALVE1) ROW 85 (EXPECTED) = ON;

3516 7DD1 END SEQUENCE;

3517 7DD3 IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

3518 7DDA ASSIGN (SWITCH) ROW 11 (NOPOWER) = ON;

3519 7DDF ASSIGN (SWITCH) ROW 12 (NOPOWER) = ON;

3520 7DE4 ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;

3521 7DE9 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;

3522 7DEE ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISM ADDR EXPANDED SOURCE STATEMENT

3523 7DF3 ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;

3524 7DF8 ASSIGN (SWITCH) ROW 20 (EXPECTED) = ON;

3525 7DFD ASSIGN (VALVE1) ROW 3 (EXPECTED) = ON;

3526 7E03 ASSIGN (VALVE1) ROW 5 (EXPECTED) = ON;

3527 7E08 ASSIGN (VALVE1) ROW 62 (EXPECTED) = ON;

3528 7E0D ASSIGN (VALVE1) ROW 87 (EXPECTED) = ON;

3529 7E12 END SEQUENCE;

3530 7E14 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

3531 7E22 ASSIGN (SWITCH) ROW 11 (NOPOWER) = ON;

3532 7E27 ASSIGN (SWITCH) ROW 12 (NOPOWER) = ON;

3533 7E2C ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;

3534 7E31 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;

3535 7E36 ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;

3536 7E3B ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;

3537 7E40 END SEQUENCE;

3538 7E42 GOTO STEP 1000;

3539 7E45 STEP 2280 CONTINUE;

3540 7E48 LET (SEQ) = 1;

3541 7E4D LET (TEST) = 28;

3542 7E52 STEP 2285 CONTINUE;

3543 7E55 LET (EPDC BUS) ROW 2 (LOW) = -1V;

3544 7E5B LET (EPDC BUS) ROW 2 (HIGH) = 24V;

3545 7E61 LET (EPDC BUS) ROW 3 (LOW) = -1V;

3546 7E67 LET (EPDC BUS) ROW 3 (HIGH) = 24V;

3547 7E6D LET (EPDC BUS) ROW 4 (LOW) = -1V;

3548 7E73 LET (EPDC BUS) ROW 4 (HIGH) = 24V;

3549 7E79 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

3550 7E81 ASSIGN (SWITCH) ROW 11 (NOPOWER) = ON;

3551 7E86 ASSIGN (SWITCH) ROW 12 (NOPOWER) = ON;

3552 7E8B ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;

3553 7E90 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;

3554 7E95 ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROFESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
3555 7E9A ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;  
3556 7E9F ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;  
3557 7EA4 ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;

3558 7EA9 ASSIGN (SWITCH) ROW 19 (EXPECTED) = ON;

3559 7EAE ASSIGN (VALVE1) ROW 67 (EXPECTED) = ON;

3560 7EB3 ASSIGN (VALVE1) ROW 85 (EXPECTED) = ON;

3561 7EB8 END SEQUENCE;

3562 7EBA IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

3563 7EC1 ASSIGN (SWITCH) ROW 11 (NOPOWER) = ON;

3564 7EC6 ASSIGN (SWITCH) ROW 12 (NOPOWER) = ON;

3565 7ECB ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;

3566 7ED0 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;

3567 7ED5 ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;

3568 7EDA ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;

3569 7EDF ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;

3570 7EE4 ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;

3571 7EE9 ASSIGN (SWITCH) ROW 20 (EXPECTED) = ON;

3572 7EEE ASSIGN (VALVE1) ROW 62 (EXPECTED) = ON;

3573 7EF3 ASSIGN (VALVE1) ROW 87 (EXPECTED) = ON;

3574 7EF8 END SEQUENCE;

3575 7EFA IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

3576 7F09 ASSIGN (SWITCH) ROW 11 (NOPOWER) = ON;

3577 7F0E ASSIGN (SWITCH) ROW 12 (NOPOWER) = ON;

3578 7F13 ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;

3579 7F18 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;

3580 7F1D ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;

3581 7F22 ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;

3582 7F27 ASSIGN (SWITCH) ROW 57 (NOPOWER) = ON;

3583 7F2C ASSIGN (SWITCH) ROW 58 (NOPOWER) = ON;

3584 7F31 END SEQUENCE;

3585 7F33 GOTO STEP 1000;

3586 7F36 STEP 2290 CONTINUE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

3587 7F39 LET (SEQ) = 1;

3588 7F3E LET (TEST) = 20;

3589 7F43 STEP 2295 CONTINUE;

3590 7F46 LET (EPDC BUS) ROW 1 (LOW) = -1V;

3591 7F4C LET (EPDC BUS) ROW 1 (HIGH) = 24V;

3592 7F52 LET (EPDC BUS) ROW 3 (LOW) = -1V;

3593 7F58 LET (EPDC BUS) ROW 3 (HIGH) = 24V;

3594 7F5E LET (EPDC BUS) ROW 4 (LOW) = -1V;

3595 7F64 LET (EPDC BUS) ROW 4 (HIGH) = 24V;

3596 7F6A LET (EPDC BUS) ROW 7 (LOW) = -1V;

3597 7F70 LET (EPDC BUS) ROW 7 (HIGH) = 24V;

3598 7F76 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

3599 7F7B ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;

3600 7F83 ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;

3601 7F88 ASSIGN (SWITCH) ROW 11 (NOPOWER) = ON;

3602 7F8D ASSIGN (SWITCH) ROW 12 (NOPOWER) = ON;

3603 7F92 ASSIGN (SWITCH) ROW 17 (NOPOWER) = ON;

3604 7F97 ASSIGN (SWITCH) ROW 18 (NOPOWER) = ON;

3605 7F9C ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;

3606 7FA1 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;

3607 7FA6 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;

3608 7FAB ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;

3609 7FB0 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;

3610 7FB5 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

3611 7FBA ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;

3612 7FBF ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;

3613 7FC4 ASSIGN (SWITCH) ROW 19 (NOPOWER2) = ON;

3614 7FC9 ASSIGN (SWITCH) ROW 19 (NOPOWER) = ON;

3615 7FCE ASSIGN (SWITCH) ROW 20 (NOPOWER) = ON;

3616 7FD3 ASSIGN (SWITCH) ROW 20 (EXPECTED) = ON;

3617 7FD8 END SEQUENCE;

3618 7FDA IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

3619 7FE1 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;

3620 7FE6 ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;

3621 7FEB ASSIGN (SWITCH) ROW 11 (NOPOWER) = ON;

3622 7FF0 ASSIGN (SWITCH) ROW 12 (NOPOWER) = ON;

3623 7FF5 ASSIGN (SWITCH) ROW 17 (NOPOWER) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

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IC
ISN ADDR EXPANDED SOURCE STATEMENT
3624 7FFA ASSIGN (SWITCH) ROW 18 (NOPOWER) = ON;
3625 7FFF ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;
3626 8005 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;
3627 800A ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;
3628 800F ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;
3629 8014 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;
3630 8019 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;
3631 801E ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;
3632 8023 ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;

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3633 8028 ASSIGN (SWITCH) ROW 19 (NOPOWER2) = ON;
3634 802D ASSIGN (SWITCH) ROW 19 (NOPOWER) = ON;
3635 8032 ASSIGN (SWITCH) ROW 20 (NOPOWER) = ON;
3636 8037 ASSIGN (SWITCH) ROW 19 (EXPECTED) = ON;

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3637 803C END SEQUENCE;

3638 803E IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

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3639 804C ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;
3640 8051 ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;
3641 8056 ASSIGN (SWITCH) ROW 11 (NOPOWER) = ON;
3642 805B ASSIGN (SWITCH) ROW 12 (NOPOWER) = ON;
3643 8060 ASSIGN (SWITCH) ROW 17 (NOPOWER) = ON;
3644 8065 ASSIGN (SWITCH) ROW 18 (NOPOWER) = ON;
3645 806A ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;
3646 806F ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;
3647 8074 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;
3648 8079 ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;
3649 807E ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;
3650 8084 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;
3651 8089 ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;
3652 808E ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;

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3653 8093 ASSIGN (SWITCH) ROW 19 (NOPOWER2) = ON;
3654 8098 ASSIGN (SWITCH) ROW 19 (NOPOWER) = ON;
3655 809D ASSIGN (SWITCH) ROW 20 (NOPOWER) = ON;

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3656 80A2 END SEQUENCE;

3657 80A4 GOTO STEP 1000;

3658 80A7 STEP 2300 CONTINUE;

3659 80AA LET (SEQ) = 1;

3660 80AF LET (TEST) = 30;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISM ADDR EXPANDED SOURCE STATEMENT

3661 80B4 STEP 2305 CONTINUE;

3662 80B7 LET (EPDC BUS) ROW 6 (LOW) = -1V;

3663 80B8 LET (EPDC BUS) ROW 6 (HIGH) = 24V;

3664 80C3 LET (EPDC BUS) ROW 7 (LOW) = -1V;

3665 80C9 LET (EPDC BUS) ROW 7 (HIGH) = 24V;

3666 80C5 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

3667 80D6 ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;

3668 80DB ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;

3669 80E0 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;

3670 80E5 ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;

3671 80EA ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;

3672 80EF ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

3673 80F4 ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;

3674 80F9 ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;

3675 80FE ASSIGN (SWITCH) ROW 25 (EXPECTED) = ON;

3676 8104 ASSIGN (VALVE1) ROW 14 (EXPECTED) = ON;

3677 8109 ASSIGN (VALVE1) ROW 69 (EXPECTED) = ON;

3678 810E ASSIGN (VALVE1) ROW 89 (EXPECTED) = ON;

3679 8113 END SEQUENCE;

3680 8115 IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

3681 811C ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;

3682 8121 ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;

3683 8126 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;

3684 812B ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;

3685 8130 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;

3686 8135 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

3687 813A ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;

3688 813F ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;

3689 8144 ASSIGN (SWITCH) ROW 26 (EXPECTED) = ON;

3690 8149 ASSIGN (VALVE1) ROW 13 (EXPECTED) = ON;

3691 814E ASSIGN (VALVE1) ROW 15 (EXPECTED) = ON;

3692 8153 ASSIGN (VALVE1) ROW 64 (EXPECTED) = ON;

3693 8158 ASSIGN (VALVE1) ROW 91 (EXPECTED) = ON;

3694 815D END SEQUENCE;

3695 815F IF (SEQ) = 3 OR (SEQ) = 4 THEN

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISM ADDR EXPANDED SOURCE STATEMENT

BEGIN SEQUENCE;

3696 816D ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;  
 3697 8172 ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;  
 3698 8177 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
 3699 817C ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
 3700 8182 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
 3701 8187 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;  
 3702 818C ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;  
 3703 8191 ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;

3704 8196 ASSIGN (SWITCH) ROW 26 (EXPECTED) = ON;

3705 819B END SEQUENCE;

3706 819B GOTO STEP 1000;

3707 81A0 STEP 2340 CONTINUE;

3708 81A3 LET (SEQ) = 1;

3709 81A8 LET (TEST) = 31;

3710 81AD STEP 2315 CONTINUE;

3711 81B0 LET (EPDC BUS) ROW 5 (LOW) = -1V;  
 3712 81B6 LET (EPDC BUS) ROW 5 (HIGH) = 24V;  
 3713 81BC LET (EPDC BUS) ROW 6 (LOW) = -1V;  
 3714 81C2 LET (EPDC BUS) ROW 6 (HIGH) = 24V;  
 3715 81C8 LET (EPDC BUS) ROW 7 (LOW) = -1V;  
 3716 81CE LET (EPDC BUS) ROW 7 (HIGH) = 24V;

3717 81D4 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

3718 81DB ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;  
 3719 81E0 ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;  
 3720 81E5 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
 3721 81EA ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
 3722 81EF ASSIGN (SWITCH) ROW 33 (NOPOWER) = ON;  
 3723 81F4 ASSIGN (SWITCH) ROW 34 (NOPOWER) = ON;  
 3724 81F9 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
 3725 81FE ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;  
 3726 8204 ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;  
 3727 8209 ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;  
 3728 820E ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;  
 3729 8213 ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
3730 8218 ASSIGN (SWITCH) ROW 26 (EXPECTED) = ON;  
3731 821D ASSIGN (VALVE1) ROW 64 (EXPECTED) = ON;  
3732 8222 ASSIGN (VALVE1) ROW 91 (EXPECTED) = ON;

3733 8227 END SEQUENCE;

3734 8229 IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

3735 8230 ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;

3736 8235 ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;

3737 823A ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;

3738 823F ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;

3739 8244 ASSIGN (SWITCH) ROW 33 (NOPOWER) = ON;

3740 8249 ASSIGN (SWITCH) ROW 34 (NOPOWER) = ON;

3741 824E ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;

3742 8253 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

3743 8258 ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;

3744 825D ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;

3745 8262 ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;

3746 8267 ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

3747 826C ASSIGN (SWITCH) ROW 25 (EXPECTED) = ON;

3748 8271 ASSIGN (VALVE1) ROW 69 (EXPECTED) = ON;

3749 8276 ASSIGN (VALVE1) ROW 89 (EXPECTED) = ON;

3750 827B END SEQUENCE;

3751 827D IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

3752 8280 ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;

3753 8291 ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;

3754 8296 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;

3755 829B ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;

3756 82A0 ASSIGN (SWITCH) ROW 33 (NOPOWER) = ON;

3757 82A5 ASSIGN (SWITCH) ROW 34 (NOPOWER) = ON;

3758 82AA ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;

3759 82AF ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

3760 82B4 ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;

3761 82B9 ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;

3762 82BE ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;

3763 82C3 ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

3764 82C8 ASSIGN (SWITCH) ROW 25 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

IC  
ISN ADDR EXPANDED SOURCE STATEMENT  
3765 82CD END SEQUENCE;

3766 82CF GOTO STEP 1000;

3767 82D2 STEP 2320 CONTINUE;

3768 82D5 LET (SEQ) = 1;

3769 82DA LET (TEST) = 32;

3770 82DF STEP 2325 CONTINUE;

3771 82E2 LET (EPDC BUS) ROW 1 (LOW) = -1V;  
3772 82E8 LET (EPDC BUS) ROW 1 (HIGH) = 24V;  
3773 82EE LET (EPDC BUS) ROW 4 (LOW) = -1V;  
3774 82F4 LET (EPDC BUS) ROW 4 (HIGH) = 24V;  
3775 82FA LET (EPDC BUS) ROW 6 (LOW) = -1V;  
3776 8301 LET (EPDC BUS) ROW 6 (HIGH) = 24V;  
3777 8307 LET (EPDC BUS) ROW 7 (LOW) = -1V;  
3778 830B LET (EPDC BUS) ROW 7 (HIGH) = 24V;

3779 8313 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

3780 831A ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
3781 831F ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;  
3782 8324 ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;  
3783 8329 ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;  
3784 832E ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
3785 8333 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
3786 8338 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
3787 833D ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
3788 8342 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
3789 8347 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;  
3790 834C ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;  
3791 8351 ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;

3792 8356 ASSIGN (SWITCH) ROW 25 (EXPECTED) = ON;

3793 835B END SEQUENCE;

3794 835D IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

3795 8364 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
3796 8369 ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;  
3797 836E ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;  
3798 8373 ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

EXPANDED SOURCE STATEMENT

3799 8378 ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
 3800 8378 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
 3801 8383 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
 3802 8388 ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
 3803 838D ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
 3804 8392 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;  
 3805 8397 ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;  
 3806 839C ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;  
 3807 83A1 ASSIGN (SWITCH) ROW 26 (EXPECTED) = ON;

END SEQUENCE;

3808 83A6

3809 83A8 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

3810 83B6 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
 3811 83BB ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;  
 3812 83C0 ASSIGN (SWITCH) ROW 5 (NOPOWER) = ON;  
 3813 83C5 ASSIGN (SWITCH) ROW 6 (NOPOWER) = ON;  
 3814 83CA ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
 3815 83CF ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
 3816 83D4 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
 3817 83D9 ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
 3818 83DE ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
 3819 83E3 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;  
 3820 83E8 ASSIGN (SWITCH) ROW 55 (NOPOWER) = ON;  
 3821 83ED ASSIGN (SWITCH) ROW 56 (NOPOWER) = ON;

3822 83F2 ASSIGN (SWITCH) ROW 26 (EXPECTED) = ON;

3823 83F7 END SEQUENCE;

3824 83F9 GOTO STEP 1000;

3825 83FC STEP 2330 CONTINUE;

3826 83FF LET (SEQ) = 1;

3827 8405 LET (TEST) = 33;

3828 840A STEP 2335 CONTINUE;

3829 840D LET (EPDC BUS) ROW 1 (LOW) = -1V;  
 3830 8413 LET (EPDC BUS) ROW 1 (HIGH) = 24V;  
 3831 8419 LET (EPDC BUS) ROW 4 (LOW) = -1V;  
 3832 841F LET (EPDC BUS) ROW 4 (HIGH) = 24V;  
 3833 8425 LET (EPDC BUS) ROW 7 (LOW) = -1V;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

EXPANDED SOURCE STATEMENT

3834 842B LET (EPDC BUS) ROW 7 (HIGH) = 24V;  
3835 8431 LET (EPDC BUS) ROW 9 (LOW) = 1V;  
3836 8437 LET (EPDC BUS) ROW 9 (HIGH) = 24V;

3837 843D IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

3838 8444 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
3839 8449 ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;  
3840 844E ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
3841 8453 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
3842 8458 ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
3843 845B ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
3844 8462 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
3845 8467 ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

3846 846C ASSIGN (SWITCH) ROW 35 (EXPECTED) = ON;

3847 8471 END SEQUENCE;

3848 8473 IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

3849 847A ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
3850 847F ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;  
3851 8485 ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
3852 848A ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
3853 848F ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
3854 8494 ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
3855 8499 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;  
3856 849E ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;

3857 84A3 ASSIGN (SWITCH) ROW 36 (EXPECTED) = ON;

3858 84A8 END SEQUENCE;

3859 84AA IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

3860 84B8 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
3861 84BD ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;  
3862 84C2 ASSIGN (SWITCH) ROW 31 (NOPOWER) = ON;  
3863 84C7 ASSIGN (SWITCH) ROW 32 (NOPOWER) = ON;  
3864 84CC ASSIGN (SWITCH) ROW 45 (NOPOWER) = ON;  
3865 84D1 ASSIGN (SWITCH) ROW 46 (NOPOWER) = ON;  
3866 84D6 ASSIGN (SWITCH) ROW 47 (NOPOWER) = ON;

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAE6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
3867 84DB ASSIGN (SWITCH) ROW 48 (NOPOWER) = ON;  
3868 84E0 ASSIGN (SWITCH) ROW 36 (EXPECTED) = ON;

3869 84E5 END SEQUENCE;

3870 84E7 GO TO STEP 1000;

3871 84EA STEP 2340 CONTINUE;

3872 84E0 LET (SER) = 1;

3873 84E2 LET (LEFT) = 34;

3874 84F7 STEP 2345 CONTINUE;

3875 84FA LET (EPDC BUS) ROW 1 (LOW) = 1V;

3876 8501 LET (EPDC BUS) ROW 1 (HIGH) = 24V;

3877 8507 LET (EPDC BUS) ROW 8 (LOW) = 1V;

3878 850D LET (EPDC BUS) ROW 8 (HIGH) = 24V;

3879 8513 LET (EPDC BUS) ROW 9 (LOW) = 1V;

3880 8519 LET (EPDC BUS) ROW 9 (HIGH) = 24V;

3881 851F IF (SER) = 1 THEN

BEGIN SEQUENCE;

3882 8526 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;

3883 852B ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;

3884 8530 ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;

3885 8535 ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;

3886 853A ASSIGN (SWITCH) ROW 35 (NOPOWER2) = ON;

3887 853F ASSIGN (SWITCH) ROW 35 (NOPOWER) = ON;

3888 8544 ASSIGN (SWITCH) ROW 36 (NOPOWER) = ON;

3889 8549 ASSIGN (SWITCH) ROW 36 (EXPECTED) = ON;

3890 854E ASSIGN (VALVE1) ROW 23 (NOPOWER) = ON;

3891 8553 LET (MVDATA) = 1;

3892 8558 ASSIGN (VALVE1) ROW 65 (EXPECTED) = ON;

3893 855D ASSIGN (VALVE1) ROW 72 (NOPOWER) = ON;

3894 8562 ASSIGN (VALVE1) ROW 93 (NOPOWER) = ON;

3895 8567 ASSIGN (VALVE1) ROW 95 (NOPOWER) = ON;

3896 856C END SEQUENCE;

3897 856E IF (SER) = 2 THEN

BEGIN SEQUENCE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

EXPANDED SOURCE STATEMENT

3898 8575 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
3899 857A ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;  
3900 857F ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;  
3904 8585 ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;

3902 858A ASSIGN (SWITCH) ROW 35 (NOPOWER2) = ON;  
3903 858F ASSIGN (SWITCH) ROW 35 (NOPOWER) = ON;  
3904 8594 ASSIGN (SWITCH) ROW 36 (NOPOWER) = ON;  
3905 8599 ASSIGN (SWITCH) ROW 35 (EXPECTED) = ON;

3906 859E ASSIGN (VALVE1) ROW 23 (NOPOWER) = ON;  
3907 85A3 LET (NVDATA) = 1;  
3908 85A8 ASSIGN (VALVE1) ROW 72 (NOPOWER) = ON;  
3909 85AB ASSIGN (VALVE1) ROW 93 (NOPOWER) = ON;  
3910 85B2 ASSIGN (VALVE1) ROW 95 (NOPOWER) = ON;

3911 85B7 END SEQUENCE;

3912 85B9 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

3913 85C7 ASSIGN (SWITCH) ROW 1 (NOPOWER) = ON;  
3914 85CC ASSIGN (SWITCH) ROW 2 (NOPOWER) = ON;  
3915 85D1 ASSIGN (SWITCH) ROW 9 (NOPOWER) = ON;  
3916 85D6 ASSIGN (SWITCH) ROW 10 (NOPOWER) = ON;

3917 85DB ASSIGN (SWITCH) ROW 35 (NOPOWER2) = ON;  
3918 85E0 ASSIGN (SWITCH) ROW 35 (NOPOWER) = ON;  
3919 85E5 ASSIGN (SWITCH) ROW 36 (NOPOWER) = ON;

3920 85EA END SEQUENCE;

3921 85EC GOTO STEP 1000;

3922 85EF STEP 2350 CONTINUE;

3923 85F2 LET (SER) = 1;

3924 85F7 LET (TEST) = 35;

3925 85FC STEP 2355 CONTINUE;

3926 85FF LET (EPDC BUS) ROW 3 (LOW) = -1V;  
3927 8606 LET (EPDC BUS) ROW 3 (HIGH) = 24V;  
3928 860C LET (EPDC BUS) ROW 5 (LOW) = -1V;  
3929 8612 LET (EPDC BUS) ROW 5 (HIGH) = 24V;

3930 8618 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAE6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

3931 861F ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;  
3932 8624 ASSIGN (SWITCH) ROW 54 (VPOWER) = ON;  
3933 8629 ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;  
3934 862E ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

3935 8633 ASSIGN (SWITCH) ROW 49 (EXPECTED) = ON;  
3936 8638 ASSIGN (VALVE1) ROW 59 (EXPECTED) = ON;  
3937 863D ASSIGN (VALVE1) ROW 60 (EXPECTED) = ON;

3938 8642 END SEQUENCE;

3939 8644 IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

3940 864B ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;  
3941 8650 ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;  
3942 8655 ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;  
3943 865A ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

3944 865F END SEQUENCE;

3945 8661 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

3946 866F ASSIGN (SWITCH) ROW 53 (NOPOWER) = ON;  
3947 8674 ASSIGN (SWITCH) ROW 54 (NOPOWER) = ON;  
3948 8679 ASSIGN (SWITCH) ROW 59 (NOPOWER) = ON;  
3949 867E ASSIGN (SWITCH) ROW 60 (NOPOWER) = ON;

3950 8684 END SEQUENCE;

3951 8686 GOTO STEP 1000;

3952 8689 STEP 2360 CONTINUE;

3953 868C LET (SEQ) = 1;

3954 8691 LET (IFST) = 361;

3955 8696 STEP 2365 CONTINUE;

3956 8699 LET (EPDC BUS) ROW 3 (LOW) = 1V;  
3957 869F LET (EPDC BUS) ROW 3 (HIGH) = 24V;  
3958 86A5 LET (EPDC BUS) ROW 7 (LOW) = 1V;  
3959 86AB LET (EPDC BUS) ROW 7 (HIGH) = 24V;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

3960 8601 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

3961 8608 ASSIGN (SWITCH) ROW 49 (EXPECTED) = ON;

3962 8600 ASSIGN (VALVE1) ROW 59 (EXPECTED) = ON;

3963 86C2 ASSIGN (VALVE1) ROW 60 (EXPECTED) = ON;

3964 86C7 END SEQUENCE;

3965 86C9 IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

3966 8600 END SEQUENCE;

3967 8602 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

3968 86E0 END SEQUENCE;

3969 86E2 GOTO STEP 1000;

3970 86E5 STEP 2370 CONTINUE;

3971 86E8 LET (SEQ) = 1;

3972 86E0 LET (TEST) = 37;

3973 86F2 STEP 2375 CONTINUE;

3974 86F5 IF (SEQ) = 1 THEN

BEGIN SEQUENCE;

3975 86FC ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;

3976 8702 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;

3977 8707 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;

3978 870C ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;

3979 8711 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;

3980 8716 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;

3981 871B ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;

3982 8720 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;

3983 8725 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;

3984 872A ASSIGN (SWITCH) ROW 31 (EXPECTED) = ON;

3985 872F ASSIGN (SWITCH) ROW 45 (EXPECTED) = ON;



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
 3986 8734 ASSIGN (SWITCH) ROW 47 (EXPECTED) = ON;  
 3987 8739 ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;  
 3988 873E ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;  
 3989 8743 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
 3990 8748 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;  
 3991 874D ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;  
 3992 8752 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;  
 3993 8757 ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;  
 3994 875C ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;  
 3995 8761 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;  
 3996 8766 ASSIGN (VALVE1) ROW 32 (EXPECTED) = ON;  
 3997 876B ASSIGN (VALVE1) ROW 41 (EXPECTED) = ON;  
 3998 8770 ASSIGN (VALVE1) ROW 45 (EXPECTED) = ON;  
 3999 8775 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;  
 4000 877A ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;  
 4001 877F ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;  
 4002 8785 ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;  
 4003 878A ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;  
 4004 878F ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;  
 4005 8794 ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;  
 4006 8799 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;  
 4007 879E ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;  
 4008 87A3 ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;  
 4009 87A8 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;  
 4010 87AD ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

4011 87B2 END SEQUENCE;

4012 87B4 IF (SEQ) = 2 THEN

BEGIN SEQUENCE;

4013 87B6 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;  
 4014 87C0 ASSIGN (SWITCH) ROW 3 (EXPECTED) = ON;  
 4015 87C5 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;  
 4016 87CA ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;  
 4017 87CF ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;  
 4018 87D4 ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;  
 4019 87D9 ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;  
 4020 87DE ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;  
 4021 87E3 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;  
 4022 87E8 ASSIGN (SWITCH) ROW 31 (EXPECTED) = ON;  
 4023 87ED ASSIGN (SWITCH) ROW 45 (EXPECTED) = ON;  
 4024 87F2 ASSIGN (SWITCH) ROW 47 (EXPECTED) = ON;  
 4025 87F7 ASSIGN (VALVE1) ROW 7 (EXPECTED) = ON;  
 4026 87FC ASSIGN (VALVE1) ROW 8 (EXPECTED) = ON;  
 4027 8802 ASSIGN (VALVE1) ROW 9 (EXPECTED) = ON;  
 4028 8807 ASSIGN (VALVE1) ROW 17 (EXPECTED) = ON;  
 4029 880C ASSIGN (VALVE1) ROW 18 (EXPECTED) = ON;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

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IGN ADDR EXPANDED SOURCE STATEMENT
4030 8811 ASSIGN (VALVE1) ROW 19 (EXPECTED) = ON;
4031 8816 ASSIGN (VALVE1) ROW 27 (EXPECTED) = ON;
4032 881B ASSIGN (VALVE1) ROW 28 (EXPECTED) = ON;
4033 8820 ASSIGN (VALVE1) ROW 29 (EXPECTED) = ON;
4034 8825 ASSIGN (VALVE1) ROW 32 (EXPECTED) = ON;
4035 882A ASSIGN (VALVE1) ROW 41 (EXPECTED) = ON;
4036 882F ASSIGN (VALVE1) ROW 45 (EXPECTED) = ON;
4037 8834 ASSIGN (VALVE1) ROW 97 (EXPECTED) = ON;
4038 8839 ASSIGN (VALVE1) ROW 98 (EXPECTED) = ON;
4039 883E ASSIGN (VALVE1) ROW 99 (EXPECTED) = ON;
4040 8843 ASSIGN (VALVE1) ROW 100 (EXPECTED) = ON;
4041 8848 ASSIGN (VALVE2) ROW 1 (EXPECTED) = ON;
4042 884D ASSIGN (VALVE2) ROW 2 (EXPECTED) = ON;
4043 8852 ASSIGN (VALVE2) ROW 3 (EXPECTED) = ON;
4044 8857 ASSIGN (VALVE2) ROW 4 (EXPECTED) = ON;
4045 885C ASSIGN (VALVE2) ROW 5 (EXPECTED) = ON;
4046 8861 ASSIGN (VALVE2) ROW 6 (EXPECTED) = ON;
4047 8866 ASSIGN (VALVE2) ROW 7 (EXPECTED) = ON;
4048 886B ASSIGN (VALVE2) ROW 8 (EXPECTED) = ON;

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4049 8870 END SEQUENCE;

4050 8872 IF (SEQ) = 3 OR (SEQ) = 4 THEN

BEGIN SEQUENCE;

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4051 8881 ASSIGN (SWITCH) ROW 1 (EXPECTED) = ON;
4052 8886 ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;
4053 888B ASSIGN (SWITCH) ROW 5 (EXPECTED) = ON;
4054 8890 ASSIGN (SWITCH) ROW 7 (EXPECTED) = ON;
4055 8895 ASSIGN (SWITCH) ROW 9 (EXPECTED) = ON;
4056 889A ASSIGN (SWITCH) ROW 11 (EXPECTED) = ON;
4057 889F ASSIGN (SWITCH) ROW 13 (EXPECTED) = ON;
4058 88A4 ASSIGN (SWITCH) ROW 15 (EXPECTED) = ON;
4059 88A9 ASSIGN (SWITCH) ROW 17 (EXPECTED) = ON;
4060 88AE ASSIGN (SWITCH) ROW 31 (EXPECTED) = ON;
4061 88B3 ASSIGN (SWITCH) ROW 45 (EXPECTED) = ON;
4062 88B8 ASSIGN (SWITCH) ROW 47 (EXPECTED) = ON;

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4063 88BD END SEQUENCE;

4064 88BF GOTO STEP 1000;

SEND OF INSERT 25

TERMINATE KEY, CURSOR POSITION, OR PPK LED IS HIT, GO HERE. 3

4065 88C2 STEP 9999 CONTINUE;

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAE6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
4066 88C5 TURN ON <PFPK6-L1 \$PFP KEY 5 LIGHT 1 DEFAULTS> ;

4067 88CC RECORD TEXT (VAE6), <GMT \$GREENWICH MEAN TIMES> FORMAT (NO FD DESCRIPTOR),  
TEXT(<PFPK6 PFP45 TERMINATE PRESSED OR CURSORED>  
TO <CNLSL-PP \$CONSOLE PRINTER PLOTTERS> <SPA-PRNTR \$SPA PRINTERS>;

4068 890B CLEAR <LED1 \$LED 1 DEFAULTS> <LED2 \$LED 2 DEFAULTS> <LED5 \$LED 5 DEFAULTS>;

4069 8911 TURN OFF <PFPK1-L1 \$PFP KEY 1 LIGHT 1 DEFAULTS>  
<PFPK1-L2 \$PFP KEY 1 LIGHT 2 DEFAULTS>  
<PFPK2-L1 \$PFP KEY 2 LIGHT 1 DEFAULTS>  
<PFPK2-L2 \$PFP KEY 2 LIGHT 2 DEFAULTS>  
<PFPK5-L1 \$PFP KEY 5 LIGHT 1 DEFAULTS>  
<PFPK5-L2 \$PFP KEY 5 LIGHT 2 DEFAULTS>;

4070 891E INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFPK1 \$PFP KEY 1 DEFAULTS>  
<PFPK2 \$PFP KEY 2 DEFAULTS> <PFPK5 \$PFP KEY 5 DEFAULTS>;

4071 8928 PERFORM SUBROUTINE (INIT TAB);

4072 892D PERFORM SUBROUTINE (INH CUR);

4073 8932 ASSIGN (SWITCH) ROW 2 (EXPECTED) = ON;  
4074 8937 ASSIGN (SWITCH) ROW 4 (EXPECTED) = ON;  
4075 893C ASSIGN (SWITCH) ROW 6 (EXPECTED) = ON;  
4076 8941 ASSIGN (SWITCH) ROW 8 (EXPECTED) = ON;  
4077 8946 ASSIGN (SWITCH) ROW 10 (EXPECTED) = ON;  
4078 894B ASSIGN (SWITCH) ROW 12 (EXPECTED) = ON;

4079 8950 IF (IDLE) = OFF THEN  
PERFORM SUBROUTINE (WVERT) 1;

4080 8969 LET (TERMPGM) = 1;

4081 896E MODIFY <PAGE-B \$DISPLAY APPLICATION PAGE B> LINE 52 COLUMN 4 TO COLUMN 12 INVERT;

4082 8977 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFPK6 \$PFP KEY 6 DEFAULTS>;

4083 897D CLEAR <LED6 \$LED 6 DEFAULTS>;

4084 8982 TURN ON <PFPK6-L1 \$PFP KEY 6 LIGHT 1 DEFAULTS> <PFPK6-L2 \$PFP KEY 6 LIGHT 2 DEFAULTS>;

4085 898B INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B> ON  
LINE 32

COLUMN 2;

4086 8992 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <PFPK15-PB \$PROG. FUNCTION KEY 15PAGE-B DEFLT>;

4087 8999 GOTO STEP 1000;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

~~\$ SWITCHES ARE IN THE CONFIGURATION THAT THE OPERATOR WISHES, COMPLETE  
TERMINATION. \$~~

4088 899C STEP 999 CONTINUE;

4089 899F CHANGE <V41K1535XL \$MPS L02 MANF REPRSS 1(LV40) OP CMD\$> <V41K1537XL \$MPS L02 MANF REPRSS  
2(LV41) OP CMD\$> RESPONSIBLE CONSOLE

TO <C3 \$C3 LOG CON-NOT VALID IN RSYS FLD\$>.

4090 89AB STEP 998 CONTINUE;

4091 89AE INHIBIT PER INTERRUPT CHECK, EXCEPTION MONITORING

FOR <V41P1605A1 \$MPS PNEU VLVS REG HE OUTLET PRESS\$> <V41P1650A1 \$MPS PNEU ACCUMULATOR PRE  
SSURE\$>.

4092 89B9 CLEAR <PAGE-A \$DISPLAY APPLICATION PAGE AS> <PAGE-B \$DISPLAY APPLICATION PAGE BS>.

4093 89BE CLEAR <LED1 \$LED 1 DEFAULTS> <LED2 \$LED 2 DEFAULTS> <LED3 \$LED 3 DEFAULTS> <LED4 \$LED 4  
DEFAULTS> <LED5 \$LED 5 DEFAULTS> <LED6 \$LED 6 DEFAULTS>.

4094 89C7 TURN OFF <PPPK1-L1 \$PFP KEY 1 LIGHT 1 DEFAULTS> <PPPK1-L2 \$PFP KEY 1 LIGHT 2 DEFAULTS>

<PPPK2-L1 \$PFP KEY 2 LIGHT 1 DEFAULTS> <PPPK2-L2 \$PFP KEY 2 LIGHT 2 DEFAULTS>

<PPPK3-L1 \$PFP KEY 3 LIGHT 1 DEFAULTS> <PPPK3-L2 \$PFP KEY 3 LIGHT 2 DEFAULTS>

<PPPK4-L1 \$PFP KEY 4 LIGHT 1 DEFAULTS> <PPPK4-L2 \$PFP KEY 4 LIGHT 2 DEFAULTS>

<PPPK5-L1 \$PFP KEY 5 LIGHT 1 DEFAULTS> <PPPK5-L2 \$PFP KEY 5 LIGHT 2 DEFAULTS>

<PPPK6-L1 \$PFP KEY 6 LIGHT 1 DEFAULTS> <PPPK6-L2 \$PFP KEY 6 LIGHT 2 DEFAULTS>

4095 89DA ;  
OM;

4096 89ED PERFORM PROGRAM (VAE92) 1;

4097 89FD RECORD TEXT ( , ) ,

NEXT TEXT

(TO ACTIVATE EMONS ON FUNCTION DESIGNATORS WITH C3 RSYS ENTER),

NEXT TEXT

(VAE91) ON THE COMMAND LINE AT CONSOLE C3 AND PRESS <PERF PGM>.) ,

NEXT TEXT

( , ) ,

NEXT TEXT

(WHEN COMPLETE PRESS CONTINUE = PPK1) TO <PAGE=A \$DISPLAY APPLICATION PAGE AS>.

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
4098 8A5D PERFORM SURROUTINE (PFPKON) 1;

4099 8A71 STEP 8000 CONTINUE;

4100 8A74

4101 8A79 IF (ICGO) = 0 THEN GOTO STEP 8000;

4102 8A82 CLEAR <PAGE-A \$DISPLAY APPLICATION PAGE AS> <PAGE-B \$DISPLAY APPLICATION PAGE BS>;

4103 8A87 CLEAR <LED1 \$LED 1 DEFAULTS>;

4104 8A88 TURN OFF <PFPK1-L1 \$PFP KEY 1 LIGHT 1 DEFAULTS> <PFPK1-L2 \$PFP KEY 1 LIGHT 2 DEFAULTS>

4105 8A94 TERMINATE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

4106 ~~BEGIN SUBROUTINE (NEXT (0000)) REV. 0000 (NEXT NL))~~

\$ THIS SUBROUTINE CLEANS OUT THE NEXT 2 LINES FOR PRINTING ON PAGED \$

4107 ~~DECLARE NUMBER (NEXT NL) =I,  
(NEXT NLP1)=I;~~

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

\*\*\*\*\* BEGIN OPERATING STEPS \*\*\*\*\*

4108 8A97 LET (NEXT NL) = (NEXT NL) + 1;

4109 8A9D IF (NEXT NL) IS GREATER THAN 30 THEN

LET (NEXT NL) = 5;

4110 8AA8 LET (NEXT NLP1) = (NEXT NL) + 1;

4111 8AAE IF (NEXT NLP1) IS GREATER THAN 30 THEN

LET (NEXT NLP1) = 5;

4112 8AB9 CLEAR <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXT NL) COLUMN 32 TO COLUMN 70;

4113 8AC1 CLEAR <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE (NEXT NLP1) COLUMN 32 TO COLUMN 70;

4114 8AC9 TERMINATE SUBROUTINE;

4115 END SUBROUTINE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

~~4116~~ ~~BEGIN SUBROUTINE (CPAGE (0030)) REV. 0000~~



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC EXPANDED SOURCE STATEMENT

\*\*\*\*\* BEGIN OPERATING STEPS \*\*\*\*\*

4117 8ACE LET (NEXTLINE) = 4;

4118 8AD3 CLEAR <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE 5 TO LINE 30

COLUMN 32 TO COLUMN 70;

4119 8ADB TERMINATE SUBROUTINE;

4120 END SUBROUTINE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

4121 ~~BEGIN SUBROUTINE (PFPKON (0000)) REV. 0000 (PFPKON KEY);~~

\$ THIS SUBROUTINE SETS UP THE PFPK KEYS FOR ACTIVATION. \$

4122 ~~DECLARE NUMBER (PFPKON KEY)=I;~~

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC EXPANDED SOURCE STATEMENT

\*\*\*\*\*BEGIN OPERATING STEPS\*\*\*\*\*

LET (ICGO) = 0 ;

4124 8AE5 PERFORM STATEMENT GROUPS ON (PFPKON KEY);

4125 8AE8 STATEMENT GROUP FOR (PFPKON KEY) EQUAL TO (1)

BEGIN SEQUENCE;

4126 8AEA ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <PFPK1 \$PFP KEY 1 DEFAULTS>;

4127 8AF0 TURN ON <PFPK1-L2 \$PFP KEY 1 LIGHT 2 DEFAULTS> ;

4128 8AF7 RECORD TEXT (CONTINUE) TO <LED1 \$LED 1 DEFAULTS>;

4129 8B06 END SEQUENCE;

4130 8B0B STATEMENT GROUP FOR (PFPKON KEY) EQUAL TO (2)

BEGIN SEQUENCE;

4131 8B0D ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <PFPK2 \$PFP KEY 2 DEFAULTS>;

4132 8B13 TURN ON <PFPK2-L2 \$PFP KEY 2 LIGHT 2 DEFAULTS> ;

4133 8B1A RECORD TEXT ( VERIFY AGAIN) TO <LED2 \$LED 2 DEFAULTS>;

4134 8B2C END SEQUENCE;

4135 8B31 STATEMENT GROUP FOR (PFPKON KEY) EQUAL TO (4)

BEGIN SEQUENCE;

4136 8B33 ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <PFPK4 \$PFP KEY 4 DEFAULTS>;

4137 8B39 TURN ON <PFPK4-L2 \$PFP KEY 4 LIGHT 2 DEFAULTS> ;

4138 8B40 RECORD TEXT ( ABORT CURR TEST) TO <LED4 \$LED 4 DEFAULTS>;

4139 8B53 END SEQUENCE;

4140 8B58 STATEMENT GROUP FOR (PFPKON KEY) EQUAL TO (5)

BEGIN SEQUENCE;

4141 8B5A ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <PFPK5 \$PFP KEY 5 DEFAULTS>;

4142 8B60 TURN ON <PFPK5-L2 \$PFP KEY 5 LIGHT 2 DEFAULTS> ;

4143 8B67 RECORD TEXT (ERRORS - CONTINUE) TO <LED5 \$LED 5 DEFAULTS>;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

~~4144 887A~~ END SEQUENCE;

~~4145 887F~~ STATEMENT GROUP FOR (PFPKON KEY) EQUAL TO (6)

BEGIN SEQUENCE;

~~4146 8882~~ ACTIVATE PROGRAM LEVEL INTERRUPT CHECK FOR <PFPK6 \$PFP KEY 6 DEFAULTS>;

~~4147 8888~~ TURN ON <PFPK6-L2 \$PFP KEY 6 LIGHT 2 DEFAULTS>;

~~4148 888F~~ RECORD TEXT ( TERMINATE) TO <LED6 \$LED 6 DEFAULTS>;

~~4149 88A2~~ END SEQUENCE;

~~4150 88A7~~ END STATEMENT GROUPS FOR (PFPKON KEY);

~~4151 88C2~~ ACTIVATE INTERRUPT PROCESSING ON THIS LEVEL;

~~4152 88C5~~ TERMINATE SUBROUTINE;

~~4153~~ END SUBROUTINE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

4154 ~~BEGIN SUBROUTINE (UPDATE (0000)) REV. 00001~~

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

~~\$ THIS SUBROUTINE UPDATES THE DISPLAY PAGE, IF NO DATA HAS CHANGED, THEN THE ONLY THING ON THE PAGE TO CHANGE IS THE ARROW. \$~~

4155 8BCA \*\*\*\*\* BEGIN OPERATING STEPS \*\*\*\*\*  
DELAY 250 MS OR UNTIL AN INTERRUPT OCCURS;

4156 8BCF ASSIGN (UFLAG2) = ON;

4157 8BD4 LET (ARROW) = (ARROW) + 1;

4158 8BDA IF (ARROW) = 6 THEN

LET (ARROW) = 1;

IF (ARROW) = 1 THEN

RECORD GRAPHIC (32U) TO <PAGE-B \$DISPLAY APPLICATION PAGE-B\$> LINE 5 COLUMN 70 SCRATCH;

IF (ARROW) = 2 THEN

RECORD GRAPHIC (35U) TO <PAGE-B \$DISPLAY APPLICATION PAGE-B\$> LINE 5 COLUMN 70 SCRATCH;

IF (ARROW) = 3 THEN

RECORD GRAPHIC (36U) TO <PAGE-B \$DISPLAY APPLICATION PAGE-B\$> LINE 5 COLUMN 70 SCRATCH;

IF (ARROW) = 4 THEN

RECORD GRAPHIC (35L) TO <PAGE-B \$DISPLAY APPLICATION PAGE-B\$> LINE 5 COLUMN 70 SCRATCH;

IF (ARROW) = 5 THEN

RECORD GRAPHIC (36L) TO <PAGE-B \$DISPLAY APPLICATION PAGE-B\$> LINE 5 COLUMN 70 SCRATCH;

4164 8C44 READ <V76V0120A1 \$CONTROL BUS AB1 VOLTAGE\$>

<V76V0121A1 \$CONTROL BUS AB2 VOLTAGE\$>

<V76V0122A1 \$CONTROL BUS AB3 VOLTAGE\$>

<V76V0220A1 \$CONTROL BUS BC1 VOLTAGE\$>

<V76V0221A1 \$CONTROL BUS BC2 VOLTAGE\$>

<V76V0222A1 \$CONTROL BUS BC3 VOLTAGE\$>

<V76V0320A1 \$CONTROL BUS CA1 VOLTAGE\$>

<V76V0321A1 \$CONTROL BUS CA2 VOLTAGE\$>

<V76V0322A1 \$CONTROL BUS CA3 VOLTAGE\$>

<V41P1605A1 SMPS PNEU VLV5 REG HE OUTLET PRESS\$>

<V99X4120X1 \$HDA ENABLE INDICATOR\$>

<SGPCAREA1 \$GPC FEP AREA 1 STATUS\$>

<SGPCAREA2 \$GPC FEP AREA 2 STATUS\$>

<SGPCAREA3 \$GPC FEP AREA 3 STATUS\$>

<SOIADATAV \$128 OI FEP ACTIVE DATA VALID\$>

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC EXPANDED SOURCE STATEMENT

<SGPCFIDA1 \$GPC FEP AREA 1 FORMAT IDS>  
<SGPCFIDA2 \$GPC FEP AREA 2 FORMAT IDS>  
<SGPCFIDA3 \$GPC FEP AREA 3 FORMAT IDS>  
<SOIFID \$OI FEP FORMAT IDS>

AND SAVE AS (AB1),  
(AB2),  
(AB3),  
(BC1),  
(BC2),  
(BC3),  
(CA1),  
(CA2),  
(CA3),  
(PRESS1),  
(PRESS2),  
(HDA),  
(AREA1DV),  
(AREA2DV),  
(AREA3DV),  
(O1DV),  
(AREA1FMT),  
(AREA2FMT),  
(AREA3FMT),  
(O1FMT);

4165 8CB0 ASSIGN (ABTD) = ON;  
4166 8CB5 ASSIGN (AB2D) = ON;  
4167 8CBA ASSIGN (AB3D) = ON;  
4168 8CBF ASSIGN (BC1D) = ON;  
4169 8CC4 ASSIGN (BC2D) = ON;  
4170 8CC9 ASSIGN (BC3D) = ON;  
4171 8CCE ASSIGN (CA1D) = ON;  
4172 8CD3 ASSIGN (CA2D) = ON;  
4173 8CD8 ASSIGN (CA3D) = ON;

4174 8CDD IF (AB1) IS LESS THAN 24 V THEN

ASSIGN (ABTD) = OFF;

4175 8CE9 IF (AB2) IS LESS THAN 24 V THEN

ASSIGN (AB2D) = OFF;

4176 8CF5 IF (AB3) IS LESS THAN 24 V THEN

ASSIGN (AB3D) = OFF;

4177 8D02 IF (BC1) IS LESS THAN 24 V THEN

ASSIGN (BC1D) = OFF;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
4178 8D0E IF (BC2) IS LESS THAN 24 V THEN  
ASSIGN (BC2D) = OFF;

4179 8D1A IF (BC3) IS LESS THAN 24 V THEN  
ASSIGN (BC3D) = OFF;

4180 8D26 IF (CA1) IS LESS THAN 24 V THEN  
ASSIGN (CA1D) = OFF;

4181 8D32 IF (CA2) IS LESS THAN 24 V THEN  
ASSIGN (CA2D) = OFF;

4182 8D3E IF (CA3) IS LESS THAN 24 V THEN  
ASSIGN (CA3D) = OFF;

4183 8D4A IF (AB1D) = (AB1DS)  
AND (AB2D) = (AB2DS)  
AND (AB3D) = (AB3DS)  
AND (BC1D) = (BC1DS)  
AND (BC2D) = (BC2DS)  
AND (BC3D) = (BC3DS)  
AND (CA1D) = (CA1DS)  
AND (CA2D) = (CA2DS)  
AND (CA3D) = (CA3DS)  
AND (UFLAG) = OFF THEN GOTO STEP 100 ;

4184 8D7F IF (AB1) IS LESS THAN 24 V THEN  
MODIFY <PAGE=B \$DISPLAY APPLICATION PAGE B\$> LINE 28 COLUMN 20 TO COLUMN 22 INVERT ;

4185 8D92 ELSE  
MODIFY <PAGE=B \$DISPLAY APPLICATION PAGE B\$> LINE 28 COLUMN 20 TO COLUMN 22 ;

4186 8D9B IF (AB2) IS LESS THAN 24 V THEN  
MODIFY <PAGE=B \$DISPLAY APPLICATION PAGE B\$> LINE 28 COLUMN 24 TO COLUMN 26 INVERT ;

4187 8DAD ELSE  
MODIFY <PAGE=B \$DISPLAY APPLICATION PAGE B\$> LINE 28 COLUMN 24 TO COLUMN 26 ;

4188 8DB6 IF (AB3) IS LESS THAN 24 V THEN  
MODIFY <PAGE=B \$DISPLAY APPLICATION PAGE B\$> LINE 28 COLUMN 28 TO COLUMN 30 INVERT ;



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT  
4189 8DC8 ELSE

4190 8DD1 MODIFY <PAGE-B \$DISPLAY APPLICATION PAGE BS\$> LINE 28 COLUMN 28 TO COLUMN 30;

IF (BC1) IS LESS THAN 24 V THEN

MODIFY <PAGE-B \$DISPLAY APPLICATION PAGE BS\$> LINE 29 COLUMN 20 TO COLUMN 22 INVERT ;

4191 8DE3 ELSE

MODIFY <PAGE-B \$DISPLAY APPLICATION PAGE BS\$> LINE 29 COLUMN 20 TO COLUMN 22;

4192 8DEC IF (BC2) IS LESS THAN 24 V THEN

MODIFY <PAGE-B \$DISPLAY APPLICATION PAGE BS\$> LINE 29 COLUMN 24 TO COLUMN 26 INVERT ;

4193 8DFE ELSE

MODIFY <PAGE-B \$DISPLAY APPLICATION PAGE BS\$> LINE 29 COLUMN 24 TO COLUMN 26;

4194 8E08 IF (BC3) IS LESS THAN 24 V THEN

MODIFY <PAGE-B \$DISPLAY APPLICATION PAGE BS\$> LINE 29 COLUMN 28 TO COLUMN 30 INVERT ;

4195 8E1A ELSE

MODIFY <PAGE-B \$DISPLAY APPLICATION PAGE BS\$> LINE 29 COLUMN 28 TO COLUMN 30;

4196 8E23 IF (CA1) IS LESS THAN 24 V THEN

MODIFY <PAGE-B \$DISPLAY APPLICATION PAGE BS\$> LINE 30 COLUMN 20 TO COLUMN 22 INVERT ;

4197 8E35 ELSE

MODIFY <PAGE-B \$DISPLAY APPLICATION PAGE BS\$> LINE 30 COLUMN 20 TO COLUMN 22;

4198 8E3E IF (CA2) IS LESS THAN 24 V THEN

MODIFY <PAGE-B \$DISPLAY APPLICATION PAGE BS\$> LINE 30 COLUMN 24 TO COLUMN 26 INVERT ;

4199 8E50 ELSE

MODIFY <PAGE-B \$DISPLAY APPLICATION PAGE BS\$> LINE 30 COLUMN 24 TO COLUMN 26;

4200 8E59 IF (CA3) IS LESS THAN 24 V THEN

MODIFY <PAGE-B \$DISPLAY APPLICATION PAGE BS\$> LINE 30 COLUMN 28 TO COLUMN 30 INVERT ;

4201 8E6B ELSE

MODIFY <PAGE-B \$DISPLAY APPLICATION PAGE BS\$> LINE 30 COLUMN 28 TO COLUMN 30;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

4202 8E74 ASSIGN (AB1DS) = (AB1D) ;  
4203 8E79 ASSIGN (AB2DS) = (AB2D) ;  
4204 8E7E ASSIGN (AB3DS) = (AB3D) ;  
4205 8E84 ASSIGN (BC1DS) = (BC1D) ;  
4206 8E89 ASSIGN (BC2DS) = (BC2D) ;  
4207 8E8E ASSIGN (BC3DS) = (BC3D) ;  
4208 8E93 ASSIGN (CA1DS) = (CA1D) ;  
4209 8E98 ASSIGN (CA2DS) = (CA2D) ;  
4210 8E9D ASSIGN (CA3DS) = (CA3D) ;

4211 8EA2 STEP 100 CONTINUE;

4212 8EA5 IF (PRESS1) IS BETWEEN (PRESS1S) AND (PRESS1S)  
AND (PRESS2) IS BETWEEN (PRESS2S) AND (PRESS2S)  
AND (UFLAG) = OFF THEN GOTO STEP 200;

4213 8EBC CLEAR <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE 32 COLUMN 38 TO COLUMN 43;

4214 8EC4 IF (PRESS1) IS LESS THAN 25 PSIA THEN

RECORD (PRESS1) FORMAT (NO FD NAME, NO FD DESCRIPTOR)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE 32 COLUMN 28 GREEN;

4215 8EDF ELSE

RECORD (PRESS1) FORMAT (NO FD NAME, NO FD DESCRIPTOR)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE 32 COLUMN 28 RED;

4216 8EF1 CLEAR <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE 32 COLUMN 66 TO COLUMN 70;

4217 8EF9 IF (PRESS2) IS LESS THAN 25 PSIA THEN

RECORD (PRESS2) FORMAT (NO FD NAME, NO FD DESCRIPTOR)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE 32 COLUMN 56 GREEN;

4218 8F15 ELSE

RECORD (PRESS2) FORMAT (NO FD NAME, NO FD DESCRIPTOR)

TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE 32 COLUMN 56 RED;

4219 8F27 LET (PRESS1S) = (PRESS1);

4220 8F2C LET (PRESS2S) = (PRESS2);

4221 8F31 STEP 200 CONTINUE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

```

4222 8F34 IF (HDA) = (HDA5)
AND (AREA1DV) = (AREA1DVS)
AND (AREA2DV) = (AREA2DVS)
AND (AREA3DV) = (AREA3DVS)
AND (OIDV) = (OIDVS)
AND (AREA1FMT) = (AREA1FMTS)
AND (AREA2FMT) = (AREA2FMTS)
AND (AREA3FMT) = (AREA3FMTS)
AND (OIFMT) = (OIFMTS)
AND (UFLAG) = OFF THEN GOTO STEP 300;

```

4223 8F69 IF (OIDV) IS ON THEN

BEGIN SEQUENCE;

4224 8F70 RECORD (OIFMT) FORMAT (I3)  
TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE 30 COLUMN 2 GREEN;

4225 8F7E RECORD TEXT (OI)  
TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE 30 COLUMN 1 GREEN;

4226 8F8D END SEQUENCE;

4227 8F91 ELSE

RECORD TEXT (OI), GRAPHIC (35L), TEXT ( )  
TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE 30 COLUMN 1 RED;

4228 8FA1 IF (AREA1DV) IS ON OR (AREA2DV) IS ON OR (AREA3DV) IS ON THEN

BEGIN SEQUENCE;

4229 8FB4 IF (AREA1DV) IS ON THEN

RECORD (AREA1FMT) FORMAT(I2)  
TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE 30 COLUMN 6 GREEN;

4230 8FC9 ELSE

RECORD TEXT ( )  
TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE 30 COLUMN 6;

4231 8FD8 IF (AREA2DV) IS ON THEN

RECORD (AREA2FMT) FORMAT(I2)  
TO <PAGE-B \$DISPLAY APPLICATION PAGE B\$> LINE 30 COLUMN 9 GREEN;

4232 8FED ELSE

RECORD TEXT ( )

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

```

ISN ADDR EXPANDED SOURCE STATEMENT
      TO <PAGE-B $DISPLAY APPLICATION PAGE B$> LINE 30 COLUMN 9;
4233 8FFC IF (AREA3DV) IS ON THEN
      RECORD (AREA3FMT) FORMAT(12)
      TO <PAGE-B $DISPLAY APPLICATION PAGE B$> LINE 30 COLUMN 12 GREEN;

```

```

4234 9012 ELSE
      RECORD TEXT ( )
      TO <PAGE-B $DISPLAY APPLICATION PAGE B$> LINE 30 COLUMN 12 ;

```

```

4235 9021 RECORD TEXT (/)
      TO <PAGE-B $DISPLAY APPLICATION PAGE B$> LINE 30 COLUMN 9 CYAN;

```

```

4236 902F END SEQUENCE ;
4237 9033 ELSE

```

```

      RECORD TEXT (GPC) GRAPHIC (35L) TEXT ( )
      TO <PAGE-B $DISPLAY APPLICATION PAGE B$> LINE 30 COLUMN 7 RED;

```

```

4238 9044 RECORD TEXT (/)
      TO <PAGE-B $DISPLAY APPLICATION PAGE B$> LINE 30 COLUMN 6 CYAN;

```

```

4239 9052 RECORD TEXT (/)
      TO <PAGE-B $DISPLAY APPLICATION PAGE B$> LINE 30 COLUMN 12 CYAN;

```

```

4240 9060 IF (HDA) IS ON OR (AREA1FMT) = 21 OR (AREA1FMT) = 56 THEN

```

```

      RECORD TEXT (HDA), GRAPHIC (35U)
      TO <PAGE-B $DISPLAY APPLICATION PAGE B$> LINE 30 COLUMN 15 GREEN ;

```

```

4241 9083 ELSE
      RECORD TEXT (HDA), GRAPHIC (35L)
      TO <PAGE-B $DISPLAY APPLICATION PAGE B$> LINE 30 COLUMN 15 RED ;

```

```

4242 9092 ASSIGN (HDA) = (HDA) ;
4243 9097 ASSIGN (AREA1DVS) = (AREA1DV) ;
4244 909C ASSIGN (AREA2DVS) = (AREA2DV) ;
4245 90A1 ASSIGN (AREA3DVS) = (AREA3DV) ;
4246 90A6 ASSIGN (OIDVS) = (OIDV) ;

```

```

4247 90AB LET (AREA1FMT) = (AREA1FMT) ;
4248 90B0 LET (AREA2FMT) = (AREA2FMT) ;
4249 90B5 LET (AREA3FMT) = (AREA3FMT) ;
4250 90BA LET (OIFMT) = (OIFMT) ;

```

4251 90BF STEP 300 CONTINUE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT  
4252 90C2 IF (UFLAG2) = ON THEN

ASSIGN (UFLAG) = OFF;

4253 90CC TERMINATE SUBROUTINE;

4254 END SUBROUTINE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

4255 ~~BEGIN SUBROUTINE (NSWITCH (0000)) REV. 0000 (NSWITCH SWNUM))~~

~~\$ THIS SUBROUTINE OUTPUTS THE SWITCH NAME ACCORDING TO THE COLOR PROVIDED BY THE VARIABLE COLOR. \$~~

4256 DECLARE NUMBER (NSWITCH SWNUM)=I;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

\*\*\*\*\*BEGIN OPERATING STEPS \*\*\*\*\*  
4257 90D1 ASSIGN (NSWITCH NAME) = TEXT (UNKNOWN SWITCH CHOICE);

4258 90E2 IF (NSWITCH SNUM) = 1 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R2 HE ISO A CENTER);

4259 90F8 IF (NSWITCH SNUM) = 2 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R2 HE ISO B CENTER);

4260 910F IF (NSWITCH SNUM) = 3 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R2 HE ISO A LEFT);

4261 9124 IF (NSWITCH SNUM) = 4 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R2 HE ISO B LEFT);

4262 9139 IF (NSWITCH SNUM) = 5 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R2 HE ISO A RIGHT);

4263 914F IF (NSWITCH SNUM) = 6 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R2 HE ISO B RIGHT);

4264 9165 IF (NSWITCH SNUM) = 7 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R2 HE INTERCONNECT CENTER);

4265 917F IF (NSWITCH SNUM) = 8 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R2 HE INTERCONNECT LEFT);

4266 9199 IF (NSWITCH SNUM) = 9 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R2 HE INTERCONNECT RIGHT);

4267 91B2 IF (NSWITCH SNUM) = 10 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R4 L02 PREVALVE CENTER);

4268 91CA IF (NSWITCH SNUM) = 11 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R4 LH2 PREVALVE CENTER);

4269 91E2 IF (NSWITCH SNUM) = 12 THEN

ASSIGN (NSWITCH NAME)=TEXT(PNL R4 PROPELLANT FILL/DRAIN LH2 INBD);

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC EXPANDED SOURCE STATEMENT

4270-9201 IF (NSWITCH SWNUM) = 13 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R4 L02 PREVALVE LEFT);

4271-9218 IF (NSWITCH SWNUM) = 14 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R4 LH2 PREVALVE LEFT);

4272-9225 IF (NSWITCH SWNUM) = 15 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R4 PROPELLANT FILL/DRAIN L02 INBD);

4273-9240 IF (NSWITCH SWNUM) = 16 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R4 PROPELLANT FILL/DRAIN LH2 OTBD);

4274-9268 IF (NSWITCH SWNUM) = 17 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R4 MANIFOLD PRESS LH2);

4275-9284 IF (NSWITCH SWNUM) = 18 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R4 L02 PREVALVE RIGHT);

4276-9290 IF (NSWITCH SWNUM) = 19 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R4 LH2 PREVALVE RIGHT);

4277-9284 IF (NSWITCH SWNUM) = 20 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R4 FEEDLINE RLF ISOL L02);

4278-9260 IF (NSWITCH SWNUM) = 21 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R4 FEEDLINE RLF ISOL LH2);

4279-9266 IF (NSWITCH SWNUM) = 22 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R4 MANIFOLD PRESS L02);

4280-9276 IF (NSWITCH SWNUM) = 23 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R4 PROPELLANT FILL/DRAIN L02 OTBD);

4281-9310 IF (NSWITCH SWNUM) = 24 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R4 H2 PRESS LINE VENT);

4282-9335 IF (NSWITCH SWNUM) = 25 THEN



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC EXPANDED SOURCE STATEMENT

ISN ADDR ASSIGN (NSWITCH NAME) = TEXT (PNL R2 LH2 ULLAGE PRESS);

4283 934C IF (NSWITCH SNUM) = 26 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R2 PNEUMATICS HE ISOL);

4284 9364 IF (NSWITCH SNUM) = 27 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R2 MPS PRPLT DUMP SEQUENCE L02);

4285 9381 IF (NSWITCH SNUM) = 28 THEN

ASSIGN (NSWITCH NAME) = TEXT (PNL R2 MPS PRPLT DUMP SEQUENCE L02);

4286 9390 IF (NSWITCH SNUM) = 29 THEN

ASSIGN (NSWITCH NAME) =

TEXT (PNL R2 MPS PRPLT DUMP BACKUP LH2 VLV);

4287 938A IF (NSWITCH SNUM) = 30 THEN

ASSIGN (NSWITCH NAME) =

TEXT (PNL R2 MPS PRPLT DUMP BACKUP LH2 VLV);

4288 9307 PERFORM SUBROUTINE (NEXT) (NEXTLINE);

4289 93EC IF (COLOR) = 1 THEN

RECORD (NSWITCH NAME) TO <PAGE-B \$DISPLAY APPLICATION PAGE BS> LINE (NEXTLINE) COLUMN 3

2 GREEN;

4290 9401 IF (COLOR) = 2 THEN

RECORD (NSWITCH NAME) TO <PAGE-B \$DISPLAY APPLICATION PAGE BS>

LINE (NEXTLINE) COLUMN 32 YELLOW;

4291 9415 IF (COLOR) = 3 THEN

RECORD (NSWITCH NAME) TO <PAGE-B \$DISPLAY APPLICATION PAGE BS> LINE (NEXTLINE) COLUMN 3

2 RED;

4292 9429

RECORD TEXT (VAEA6); <GMT \$GREENWICH MEAN TIME\$> FORMAT (NO FD DESCRIPTOR);  
(NSWITCH NAME) TO <CNLSL-PP \$CONSOLE PRINTER PLOTTERS\$> <SPA-PRNTR \$SPA PRINTERS\$>

4293 9451 TERMINATE SUBROUTINE;

4294 END SUBROUTINE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

4295 ~~BEGIN SUBROUTINE (INVERT (0000)) REV. 0000 (INVERT NCOLOR))~~

\$ THIS SUBROUTINE CHANGES THE AREA OF THE SCREEN WHERE THE TEST NAME  
IS ACCORDING TO THE VARIABLE NCOLOR PASSED TO IT. \$

4296 DECLARE NUMBER (INVERT NCOLOR)=I,  
(INVERT TMP) =I,  
(INVERT TMP1) =I,  
(INVERT TMP2) =I;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

\*\*\*\*\*BEGIN OPERATING STEPS\*\*\*\*\*

4297 9456 IF (TEST) IS BETWEEN 0 AND 37 THEN

BEGIN SEQUENCE;

4298 9460 LET (NVERT TMP) = 0;

4299 9465 LET (NVERT TMPP1) = 0;

4300 946A LET (NVERT TMPP2) = 0;

4301 946F IF (TEST) IS GREATER THAN 0 THEN

BEGIN SEQUENCE;

4302 9477 LET (NVERT TMP) = (TEST) + 6;

4303 947D LET (NVERT TMPP1) = 4;

4304 9483 IF (NVERT TMP) IS GREATER THAN 26 THEN

BEGIN SEQUENCE;

4305 948B LET (NVERT TMP) = (NVERT TMP) - 20;

4306 9491 LET (NVERT TMPP1) = 19;

END SEQUENCE;

4308 9498 LET (NVERT TMPP2) = (NVERT TMPP1) + 11;

END SEQUENCE;

4310 94A0 IF (TEST) = 37 THEN

BEGIN SEQUENCE;

4311 94A7 LET (NVERT TMP) = 28;

4312 94AC LET (NVERT TMPP1) = 4;

4313 94B1 LET (NVERT TMPP2) = 18;

END SEQUENCE;

4315 94B8 IF (TERMPGM) = 1 THEN

BEGIN SEQUENCE;

4316 94BF LET (NVERT TMP) = 32;

4317 94C4 LET (NVERT TMPP1) = 4;

4318 94C9 LET (NVERT TMPP2) = 12;

VAE66 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE66 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAE66 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT

4319 946E END SEQUENCE;

4320 94B0 IF (NVERT TMP) IS GREATER THAN 0 THEN

BEGIN SEQUENCE;

4321 94D8 IF (NVERT NCOLOR) = 1 THEN

MODIFY <PAGE=B \$DISPLAY APPLICATION PAGE B\$> LINE (NVERT TMP) COLUMN (NVERT TMP) TO  
COLUMN (NVERT TMP) CYAN;

4322 94E6 IF (NVERT NCOLOR) = 2 THEN

MODIFY <PAGE=B \$DISPLAY APPLICATION PAGE B\$> LINE (NVERT TMP) COLUMN (NVERT TMP) TO  
COLUMN (NVERT TMP) GREEN;

4323 94F4 IF (NVERT NCOLOR) = 3 THEN

MODIFY <PAGE=B \$DISPLAY APPLICATION PAGE B\$> LINE (NVERT TMP) COLUMN (NVERT TMP) TO  
COLUMN (NVERT TMP) YELLOW;

4324 9503 IF (NVERT NCOLOR) = 4 THEN

MODIFY <PAGE=B \$DISPLAY APPLICATION PAGE B\$> LINE (NVERT TMP) COLUMN (NVERT TMP) TO  
COLUMN (NVERT TMP) INVERT;

4325 9511 END SEQUENCE;

4326 9513 END SEQUENCE;

4327 9515 TERMINATE SUBROUTINE;

4328 END SUBROUTINE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

~~4329 BEGIN SUBROUTINE (INH CUR (3000)) REV. 00001~~

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

4330 951A \*\*\*\*\*BEGIN OPERATING STEPS \*\*\*\*\*  
INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0

COLUMN 2;

4331 9521 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0

N LINE 8

COLUMN 2;

4332 9528 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0

N LINE 9

COLUMN 2;

4333 952F INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0

N LINE 10

COLUMN 2;

4334 9536 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0

N LINE 11

COLUMN 2;

4335 953D INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0

N LINE 12

COLUMN 2;

4336 9544 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0

N LINE 13

COLUMN 2;

4337 954B INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0

N LINE 14

COLUMN 2;

4338 9552 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0

N LINE 15

COLUMN 2;

4339 9559 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0

N LINE 16

COLUMN 2;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

4340 9560 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> 0

COLUMN 2;

4341 9567 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> 0

COLUMN 2;

4342 956E INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> 0

COLUMN 2;

4343 9575 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> 0

COLUMN 2;

4344 957C INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> 0

COLUMN 2;

4345 9584 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> 0

COLUMN 2;

4346 958B INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> 0

COLUMN 2;

4347 9592 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> 0

COLUMN 2;

4348 9599 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> 0

COLUMN 2;

4349 95A0 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE BS> 0

COLUMN 2;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC

ISN ADDR EXPANDED SOURCE STATEMENT  
4350 95A7 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0  
N LINE 7

~~COLUMN 17;~~

4351 95AE INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0  
N LINE 8

COLUMN 17;

4352 95B5 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0  
N LINE 9

~~COLUMN 17;~~

4353 95BC INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0  
N LINE 10

COLUMN 17;

4354 95C3 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0  
N LINE 11

~~COLUMN 17;~~

4355 95CA INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0  
N LINE 12

COLUMN 17;

4356 95D1 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0  
N LINE 13

~~COLUMN 17;~~

4357 95D8 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0  
N LINE 14

COLUMN 17;

4358 95DF INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0  
N LINE 15

~~COLUMN 17;~~

4359 95E6 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0  
N LINE 16

COLUMN 17;

4360 95ED INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0



VAEAG - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEAG REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEAG REV 77

IC  
EXPANDED SOURCE STATEMENT  
ISN ADDR N LINE 17

COLUMN 17;

4361 95F4 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0

COLUMN 17;

4362 95F8 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0

COLUMN 17;

4363 9603 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0

COLUMN 17;

4364 960A INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0

COLUMN 17;

4365 9611 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0

COLUMN 17;

4366 9618 INHIBIT PROGRAM LEVEL INTERRUPT CHECK FOR <XMIT-PB \$TRANSMIT CURSOR FUNCT KEY PAGE B\$> 0

COLUMN 2;

4367 961F TERMINATE SUBROUTINE;

4368 END SUBROUTINE;

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

4369 BEGIN SUBROUTINE (INIT TAB (0000)) REV. 00007

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR EXPANDED SOURCE LISTING VAEA6 REV 77

IC  
ISN ADDR EXPANDED SOURCE STATEMENT

\*\*\*\*\* BEGIN OPERATING STEPS \*\*\*\*\*

```

4370 9624 LET (EPDC BUS) (LOW) = 24V;
4371 962E LET (EPDC BUS) (HIGH) = 34V;
4372 9638 ASSIGN (SWITCH) (EXPECTED) = OFF;
4373 9641 ASSIGN (SWITCH) (NOPOWER) = OFF;
4374 964A ASSIGN (SWITCH) (NOPOWER2) = OFF;
4375 9653 ASSIGN (VALVE1) (EXPECTED) = OFF;
4376 965C ASSIGN (VALVE2) (EXPECTED) = OFF;
4377 9665 ASSIGN (VALVE1) (NOPOWER) = OFF;
4378 966E ASSIGN (VALVE2) (NOPOWER) = OFF;
4379 9677 LET (NVDATA) = 0;
4380 967C TERMINATE SUBROUTINE;
4381 END SUBROUTINE;
4382 END PROGRAM;

```

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE6 REV 77 INTERNAL NAME CROSS-REFERENCE LISTING VAEA6 REV 77

INTERNAL NAME	TYPE	SIZE	HEX ADDRESS	VDA #	UNIT/STATE	ISN	REFERENCED AT	ISNS
(AB1)*	QUANTITY	1	004C	V		3	4164*	4174 4184
(AB1D)*	STATE	1	009FL	ON/OFF		4	4165*	4174* 4183 4202
(AB1DS)*	STATE	1	009ER	ON/OFF		4	4183	4202*
(AB2)*	QUANTITY	1	004A	V		3	4164*	4175 4186
(AB2D)*	STATE	1	009EL	ON/OFF		4	4166*	4175* 4183 4203
(AB2DS)*	STATE	1	009DR	ON/OFF		4	4183	4203*
(AB3)*	QUANTITY	1	0048	V		3	4164*	4176 4188
(AB3D)*	STATE	1	009DL	ON/OFF		4	4167*	4176* 4183 4204
(AB3DS)*	STATE	1	009CR	ON/OFF		4	4183	4204*
(AGAIN)*	NUMERIC	1	0029	DEC		2	266*	272 539* 545 900* 906 969*
(AREA1D)*	STATE	1	009GL	ON/OFF		4	4164*	4222 4228 4229 4243
(AREA1DVS)*	STATE	1	009BR	ON/OFF		4	4222	4243*
(AREA1FMT)*	NUMERIC	1	0028	DEC		2	4164*	4222 4229 4240 4240 4247
(AREA1FMTS)*	NUMERIC	1	0027	DEC		2	4222	4247*
(AREA2D)*	STATE	1	009BL	ON/OFF		4	4164*	4222 4228 4231 4244
(AREA2DVS)*	STATE	1	009AR	ON/OFF		4	4222	4244*
(AREA2FMT)*	NUMERIC	1	0026	DEC		2	4164*	4222 4231 4248
(AREA2FMTS)*	NUMERIC	1	0025	DEC		2	4222	4248*
(AREA3D)*	STATE	1	009AL	ON/OFF		4	4164*	4222 4228 4233 4243
(AREA3DVS)*	STATE	1	0099R	ON/OFF		4	4222	4245*
(AREA3FMT)*	NUMERIC	1	0024	DEC		2	4165*	4222 4233 4249
(AREA3FMTS)*	NUMERIC	1	0023	DEC		2	4222	4249*
(ARROW)*	NUMERIC	1	0022	DEC		2	4157	4157* 4158 4158* 4159 4160 4161 4162 4163
(BC1)*	QUANTITY	1	0046	V		3	4164*	4177 4190
(BC1D)*	STATE	1	0099L	ON/OFF		4	4168*	4177* 4183 4205
(BC1DS)*	STATE	1	0098R	ON/OFF		4	4183	4205*
(BC2)*	QUANTITY	1	0044	V		3	4164*	4178 4192
(BC2D)*	STATE	1	0098L	ON/OFF		4	4169*	4178* 4183 4206
(BC2DS)*	STATE	1	0097R	ON/OFF		4	4183	4206*
(BC3)*	QUANTITY	1	0042	V		3	4164*	4179 4194
(BC3D)*	STATE	1	0097L	ON/OFF		4	4170*	4179* 4183 4207
(BC3DS)*	STATE	1	0096R	ON/OFF		4	4183	4207*
(CA1)*	QUANTITY	1	0040	V		3	4164*	4180 4196
(CA1D)*	STATE	1	0096L	ON/OFF		4	4171*	4180* 4183 4208
(CA1DS)*	STATE	1	0095R	ON/OFF		4	4183	4208*
(CA2)*	QUANTITY	1	003E	V		3	4164*	4181 4198
(CA2D)*	STATE	1	0095L	ON/OFF		4	4172*	4181* 4183 4209
(CA2DS)*	STATE	1	0094R	ON/OFF		4	4183	4209*
(CA3)*	QUANTITY	1	003C	V		3	4164*	4182 4200
(CA3D)*	STATE	1	0094L	ON/OFF		4	4173*	4182* 4183 4210

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

INTERNAL NAME CROSS-REFERENCE LISTING

INTERNAL NAME	TYPE	SIZE	HEX VDA ADDRESS	UNIT/STATE	ISN	REFERENCED AT ISNS
(CA3DS)*	STATE	1	0093R	ON/OFF	4	4183 4210*
(COLOR)*	NUMERIC	1	0021	DEC	2	349* 402* 468* 484* 4289 4290 4291
(DUMP1)*	NUMERIC	1	0020	DEC	2	279* 329 330*
(DUMP2)*	NUMERIC	1	001F	DEC	2	280* 333 334*
(EQUANT)*	NUMERIC	1	001E	DEC	2	237* 239
(EQUANT2)*	NUMERIC	1	001D	DEC	2	235* 239 239* 241 247
(EQUCROSS)*	QUANTITY	9* 2	0069	V	7	239 254 256 1107* 1108* 1222* 1223* 1224* 1225* 1327* 1328* 1329*
						1330* 1331* 1332* 1438* 1439* 1540*
						1541* 1542* 1543* 1645* 1646* 1758*
						1759* 1870* 1871* 1872* 1873* 1977*
						1978* 1979* 1980* 1981* 1982* 2100*
						2101* 2209* 2210* 2211* 2212* 2326*
						2327* 2443* 2444* 2570* 2571* 2572*
						2573* 2688* 2689* 2690* 2691* 2692*
						2693* 2814* 2815* 2929* 2930* 2931*
						2932* 3031* 3032* 3126* 3127* 3128*
						3129* 3168* 3169* 3170* 3171* 3172*
						3173* 3246* 3247* 3248* 3249* 3291*
						3292* 3293* 3294* 3333* 3334* 3335*
						3336* 3391* 3392* 3393* 3394* 3435*
						3436* 3437* 3438* 3471* 3472* 3473*
						3474* 3501* 3502* 3503* 3504* 3543*
						3544* 3545* 3546* 3547* 3548* 3590*
						3591* 3592* 3593* 3594* 3595* 3596*
						3597* 3662* 3663* 3664* 3665* 3711*
						3712* 3713* 3714* 3715* 3716* 3771*
						3772* 3773* 3774* 3775* 3776* 3777*
						3778* 3829* 3830* 3831* 3832* 3833*
						3834* 3835* 3836* 3875* 3876* 3877*
						3878* 3879* 3880* 3926* 3927* 3928*
						3929* 3956* 3957* 3958* 3959* 4370*
						4371*
(HIGH)	COLUMN	9		COLUMN	2	254 256 1108 1223 1225 1328 1330 1332 1439 1541 1543 1646 1759 1871 1873 1978 1980 1982 2101 2210 2212 2327 2444 2571 2573 2689 2691 2693 2932 3032 3127 3129 3169 3171 3173 3247 3249 3292 3294 3334 3336 3392

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

INTERNAL NAME	TYPE	SIZE	ADDRESS	HEX VDA UNIT/STATE	ISN	REFERENCED AT ISNS
VAEA6	REV 77	INTERNAL NAME CROSS-REFERENCE LISTING	VAEA6	REV 77		
(LOW)	COLUMN 9	COLUMN 1	7			
						3474 3502 3504 3544 3546 3548
						3591 3593 3595 3597 3663 3665
						3712 3714 3716 3772 3774 3776
						3778 3830 3832 3834 3836 3876
						3878 3880 3927 3929 3957 3959
						4371
						239 254 256 1107 1222 1224
						1327 1329 1331 1438 1540 1542
						1645 1758 1870 1872 1977 1979
						1981 2100 2209 2211 2326 2443
						2570 2572 2688 2690 2692 2814
						2929 2931 3031 3126 3128 3168
						3170 3172 3246 3248 3291 3293
						3333 3335 3391 3393 3435 3437
						3471 3473 3501 3503 3543 3545
						3547 3590 3592 3594 3596 3662
						3664 3711 3713 3715 3771 3773
						3775 3777 3829 3831 3833 3835
						3875 3877 3879 3926 3928 3956
						3958 4370
(ERROR)*	NUMERIC	1	001C	DEC	2	281* 338* 513 532 722* 883*
(ERRORCOL)*	NUMERIC	1	001B	DEC	2	884* 885* 886 897* 898* 899*
(ERROREPDC)*	NUMERIC	1	001A	DEC	2	156* 273* 546* 705 907*
(HDA)*	STATE	1	0093L	ON/OFF	4	181* 253* 254* 255 256*
(HDAS)*	STATE	1	0092R	ON/OFF	4	4164* 4222 4240 4242
(HEISORELIEF)*	NUMERIC	1	0018	DEC	2	276* 467* 467 470 492
(HEISOWATED)*	NUMERIC	1	0019	DEC	2	105 412 1048* 1055*
(ICGO)*	NUMERIC	1	0017	DEC	2	83 162 271 376 508 530
						544 905 924 963* 978* 4101
						4123*
(IDLE)*	STATE	1	0092L	ON/OFF	4	155* 180* 1011 4079
(LASTPOS)*	NUMERIC	1	0016	DEC	2	282* 394 395*
(NEXTLINE)*	NUMERIC	1	0015	DEC	2	169 170 171 172 242 244
						245 246 247 249 250 257
						258 259 260 261 262 263
						264 351 353 358 360 361
						362 369 370 371 372 397
						398 399 479 480 481 482
						493 495 496 497 514 515
						516 520 521 522 523 524
						533 534 535 536 537 538

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

INTERNAL NAME	TYPE	SIZE	ADDRESS	HEX VDA UNIT/STATE	ISN	INTERNAL NAME CROSS-REFERENCE LISTING	VAEA6	REV	77	REV	77	REFERENCED AT ISNS
(NEXTNL)*	NUMERIC	1	0031	DEC	4107							703 704 706 711 715 716 718 888 889 890 891 892 893 894 913 914 915 916 917 919 997 998 999 1000 1100 1101 4117* 4288 4289 4290 4291
(NEXTNLP1)*	NUMERIC	1	0030	DEC	4107							4106 4107 4108 4108* 4109 4109* 4110 4112
(NG1)*	NUMERIC	1	0014	DEC	4107							4107 4110* 4111* 4111 4113 2 277* 466* 498 504
(NG2)*	NUMERIC	1	0013	DEC	2							278* 465* 500
(N060)*	NUMERIC	1	0012	DEC	2							411* 416* 420* 424* 428* 432* 436* 441* 450* 455* 460* 464 465 465
(NSWITCHNAME)*	TEXT	1	0196L	37	5							471 4257* 4258* 4259* 4260* 4261* 4262* 4263* 4264* 4265* 4266* 4267* 4268* 4269* 4270* 4271* 4272* 4273* 4274* 4275* 4276* 4277* 4278* 4279* 4280* 4281* 4282* 4283* 4284* 4285* 4286* 4287* 4289 4290 4291 4292 4255 4256 4258 4259 4260 4261 4262 4263 4264 4265 4266 4267 4268 4269 4270 4271 4272 4273 4274 4275 4276 4277 4278 4279 4280 4281 4282 4283 4284 4285 4286 4287
(NSWITCHSNUM)	NUMERIC	1	002E	DEC	4256							251 251* 265* 265 283* 352* 352 359 359* 367 373* 396* 396 403* 403 478* 478 494* 494
(NUMLINES)*	NUMERIC	1	0011	DEC	2							862 3190* 3215* 3347* 3367* 3891* 3907* 4379*
(NVDATA)*	NUMERIC	1	0010	DEC	2							4295 4296 4321 4322 4323 4324 4296 4298* 4302* 4304 4305 4305* 4311* 4316* 4320 4321 4322 4323 4324
(INVERTNCOLOR)	NUMERIC	1	002D	DEC	4296							4296 4299* 4303* 4306* 4308 4312* 4317* 4321 4322 4323 4324
(INVERTTMP)*	NUMERIC	1	002C	DEC	4296							4296 4300* 4308* 4313* 4318* 4321 4322 4323 4324
(INVERTTMP1)*	NUMERIC	1	002B	DEC	4296							4164* 4222 4223 4246 4222 4246*
(INVERTTMP2)*	NUMERIC	1	002A	DEC	4296							
(OIOV)*	STATE	1	0091R	ON/OFF	4							
(OIOVS)*	STATE	1	0091L	ON/OFF	4							

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

INTERNAL NAME CROSS-REFERENCE LISTING

VAEA6	REV	77	INTERNAL NAME	TYPE	SIZE	HEX VDA ADDRESS	UNIT/STATE	ISN	REFERENCED AT	ISNS
			(OIFMT)*	NUMERIC	1	000C	DEC	2	4164*	4222 4224 4250
			(OIFMTS)*	NUMERIC	1	000B	DEC	2	4222	4250*
			(PFPKONKEY)	NUMERIC	1	002F	DEC	4122	4121	4122 4124 4125 4130 4135
			(PNEUTEST)*	NUMERIC	1	000E	DEC	2	1018	1019*
			(POS)*	NUMERIC	1	000F	DEC	2	337*	340* 341* 344* 346* 347*
									348	350 379 381 381* 381*
									384	384 384* 384* 387
									388	388* 389 389* 394 395
									399	400 407 408 408 482
									483	
			(POSITION)	TEXT	9	0109L	8	6	399	400 482 483
			(PRESS)*	QUANTITY	1	003A	PSIA	3	415*	416 419* 420 423* 424
									427*	428 431* 432 433* 436
									439*	441 448* 449* 449 450
									453*	454* 454 455 458* 459
									459*	460 931* 932 946* 947
									1012*	1013 1015* 1016
			(PRESS1)*	QUANTITY	1	0038	PSIA	3	4164*	4212 4214 4214 4215 4219
			(PRESS1S)*	QUANTITY	1	0036	PSIA	3	4212	4212 4219*
			(PRESS2)*	QUANTITY	1	0034	PSIA	3	440*	441 448* 449 453* 454
									458*	459 4164* 4212 4217 4217
									4218	4220
			(PRESS2S)*	QUANTITY	1	0032	PSIA	3	4212	4212 4220*
			(PTESTCLR)*	NUMERIC	1	000D	DEC	2	1018	1020*
			(SEQ)*	NUMERIC	1	000A	DEC	2	164*	193 354 551 551 557
									573	588 602 618 632 649
									661	678 730 910* 915 918
									920	920* 925 1104* 1109 1157
									1204	1204 1219* 1226 1266 1306
									1306	1324* 1333 1373 1412 1412
									1453*	1460 1483 1524 1524 1537*
									1544	1584 1624 1624 1642* 1647
									1700	1741 1741 1753* 1760 1807
									1852	1852 1867* 1874 1914 1955
									1955	1974* 1983 2027 2070 2070
									2097*	2102 2152 2192 2192 2206*
									2215	2257 2301 2301 2323* 2328
									2378	2424 2424 2440* 2445 2505
									2550	2550 2567* 2574 2619 2663
									2663	2685* 2694 2739 2783 2783
									2811*	2816 2867 2911 2911 2926*





VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 INTERNAL NAME CROSS-REFERENCE LISTING VAEA6 REV 77

INTERNAL NAME	TYPE	SIZE	ADDRESS	UNIT/STATE	ISN	REFERENCED AT	ISNS
1277*			1279*	1280*	1281*	1282*	
1307*			1309*	1310*	1311*	1312*	
1313*			1315*	1316*	1317*	1318*	
1319*			1320*	1335*	1336*	1337*	
1338*			1339*	1340*	1341*	1342*	1343*
1344*			1345*	1346*	1347*	1348*	1349*
1350*			1351*	1352*	1353*	1374*	1375*
1376*			1377*	1378*	1379*	1380*	1381*
1382*			1383*	1384*	1385*	1386*	1387*
1388*			1389*	1390*	1391*	1392*	1393*
1413*			1414*	1415*	1416*	1417*	1418*
1419*			1420*	1421*	1422*	1423*	1424*
1425*			1426*	1427*	1428*	1429*	1430*
1431*			1441*	1442*	1443*	1444*	1445*
1446*			1447*	1448*	1449*	1450*	1451*
1452*			1453*	1454*	1455*	1486*	1487*
1488*			1489*	1490*	1491*	1492*	1493*
1494*			1495*	1496*	1497*	1498*	1499*
1525*			1526*	1527*	1528*	1529*	1530*
1531*			1532*	1533*	1545*	1546*	1547*
1548*			1549*	1550*	1551*	1552*	1553*
1554*			1555*	1556*	1557*	1558*	1559*
1560*			1585*	1586*	1587*	1588*	1589*
1590*			1591*	1592*	1593*	1594*	1595*
1596*			1597*	1598*	1599*	1600*	1625*
1626*			1627*	1628*	1629*	1630*	1631*
1632*			1633*	1634*	1635*	1636*	1637*
1638*			1648*	1649*	1650*	1651*	1652*
1653*			1654*	1655*	1656*	1657*	1658*
1659*			1660*	1661*	1662*	1663*	1664*
1701*			1702*	1703*	1704*	1705*	1706*
1707*			1708*	1709*	1710*	1711*	1712*
1713*			1714*	1715*	1742*	1743*	1744*
1745*			1746*	1747*	1748*	1749*	1750*
1751*			1761*	1762*	1763*	1764*	1765*
1766*			1767*	1768*	1769*	1770*	1771*
1772*			1773*	1774*	1775*	1808*	1809*
1810*			1811*	1812*	1813*	1814*	1815*
1816*			1817*	1818*	1819*	1820*	1821*
1853*			1854*	1855*	1856*	1857*	1858*
1859*			1860*	1861*	1862*	1863*	1875*
1876*			1877*	1878*	1879*	1880*	1881*

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 INTERNAL NAME CROSS-REFERENCE LISTING VAEA6 REV 77

INTERNAL NAME	TYPE	SIZE	ADDRESS	#CHAR/FORMAT	DEFINED	ISN	
1882*			1883*	1884*	1885*	1886*	1887*
1888*			1889*	1890*	1891*	1915*	1916*
1917*			1918*	1919*	1920*	1921*	1922*
1923*			1924*	1925*	1926*	1927*	1928*
1929*			1930*	1931*	1956*	1957*	1958*
1959*			1960*	1961*	1962*	1963*	1964*
1965*			1966*	1967*	1968*	1969*	1970*
1984*			1985*	1986*	1987*	1988*	1989*
1990*			1991*	1992*	1993*	1994*	1995*
1996*			1997*	1998*	1999*	2000*	2001*
2002*			2003*	2004*	2005*	2006*	2007*
2028*			2029*	2030*	2031*	2032*	2033*
2034*			2035*	2036*	2037*	2038*	2039*
2040*			2041*	2042*	2043*	2044*	2045*
2046*			2047*	2048*	2049*	2050*	2051*
2071*			2072*	2073*	2074*	2075*	2076*
2077*			2078*	2079*	2080*	2081*	2082*
2083*			2084*	2085*	2086*	2087*	2088*
2089*			2090*	2091*	2092*	2093*	2103*
2104*			2105*	2106*	2107*	2108*	2109*
2110*			2111*	2112*	2113*	2114*	2115*
2116*			2117*	2118*	2119*	2153*	2154*
2155*			2156*	2157*	2158*	2159*	2160*
2161*			2162*	2163*	2164*	2165*	2166*
2167*			2193*	2194*	2195*	2196*	2197*
2198*			2199*	2200*	2201*	2202*	2214*
2215*			2216*	2217*	2218*	2219*	2220*
2221*			2222*	2223*	2224*	2225*	2226*
2227*			2228*	2229*	2230*	2231*	2232*
2233*			2258*	2259*	2260*	2261*	2262*
2263*			2264*	2265*	2266*	2267*	2268*
2269*			2270*	2271*	2272*	2273*	2274*
2275*			2276*	2277*	2302*	2303*	2304*
2305*			2306*	2307*	2308*	2309*	2310*
2311*			2312*	2313*	2314*	2315*	2316*
2317*			2318*	2319*	2329*	2330*	2331*
2332*			2333*	2334*	2335*	2336*	2337*
2338*			2339*	2340*	2341*	2342*	2343*
2344*			2345*	2346*	2379*	2380*	2381*
2382*			2383*	2384*	2385*	2386*	2387*
2388*			2389*	2390*	2391*	2392*	2393*
2394*			2395*	2396*	2425*	2426*	2427*

REFERENCED AT ISNS

VAE66 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE66	REV	77	INTERNAL NAME	CROSS-REFERENCE	LISTING	VAE66	REV	77	REFERENCES AT ISMS		
INTERNAL NAME	TYPE	SIZE	ADDRESS	#CHAR	FORMAT	DEFINED	ISN	HEX VDA UNIT/STATE			
2428*	2429*	2430*	2431*	2432*	2433*	2428*	2429*	2430*	2431*	2432*	2433*
2434*	2435*	2436*	2437*	2438*	2439*	2434*	2435*	2436*	2437*	2438*	2439*
2440*	2441*	2442*	2443*	2444*	2445*	2440*	2441*	2442*	2443*	2444*	2445*
2446*	2447*	2448*	2449*	2450*	2451*	2446*	2447*	2448*	2449*	2450*	2451*
2452*	2453*	2454*	2455*	2456*	2457*	2452*	2453*	2454*	2455*	2456*	2457*
2458*	2459*	2460*	2461*	2462*	2463*	2458*	2459*	2460*	2461*	2462*	2463*
2464*	2465*	2466*	2467*	2468*	2469*	2464*	2465*	2466*	2467*	2468*	2469*
2470*	2471*	2472*	2473*	2474*	2475*	2470*	2471*	2472*	2473*	2474*	2475*
2476*	2477*	2478*	2479*	2480*	2481*	2476*	2477*	2478*	2479*	2480*	2481*
2482*	2483*	2484*	2485*	2486*	2487*	2482*	2483*	2484*	2485*	2486*	2487*
2488*	2489*	2490*	2491*	2492*	2493*	2488*	2489*	2490*	2491*	2492*	2493*
2494*	2495*	2496*	2497*	2498*	2499*	2494*	2495*	2496*	2497*	2498*	2499*
2500*	2501*	2502*	2503*	2504*	2505*	2500*	2501*	2502*	2503*	2504*	2505*
2506*	2507*	2508*	2509*	2510*	2511*	2506*	2507*	2508*	2509*	2510*	2511*
2512*	2513*	2514*	2515*	2516*	2517*	2512*	2513*	2514*	2515*	2516*	2517*
2518*	2519*	2520*	2521*	2522*	2523*	2518*	2519*	2520*	2521*	2522*	2523*
2524*	2525*	2526*	2527*	2528*	2529*	2524*	2525*	2526*	2527*	2528*	2529*
2530*	2531*	2532*	2533*	2534*	2535*	2530*	2531*	2532*	2533*	2534*	2535*
2536*	2537*	2538*	2539*	2540*	2541*	2536*	2537*	2538*	2539*	2540*	2541*
2542*	2543*	2544*	2545*	2546*	2547*	2542*	2543*	2544*	2545*	2546*	2547*
2548*	2549*	2550*	2551*	2552*	2553*	2548*	2549*	2550*	2551*	2552*	2553*
2554*	2555*	2556*	2557*	2558*	2559*	2554*	2555*	2556*	2557*	2558*	2559*
2560*	2561*	2562*	2563*	2564*	2565*	2560*	2561*	2562*	2563*	2564*	2565*
2566*	2567*	2568*	2569*	2570*	2571*	2566*	2567*	2568*	2569*	2570*	2571*
2572*	2573*	2574*	2575*	2576*	2577*	2572*	2573*	2574*	2575*	2576*	2577*
2578*	2579*	2580*	2581*	2582*	2583*	2578*	2579*	2580*	2581*	2582*	2583*
2584*	2585*	2586*	2587*	2588*	2589*	2584*	2585*	2586*	2587*	2588*	2589*
2590*	2591*	2592*	2593*	2594*	2595*	2590*	2591*	2592*	2593*	2594*	2595*
2596*	2597*	2598*	2599*	2600*	2601*	2596*	2597*	2598*	2599*	2600*	2601*
2602*	2603*	2604*	2605*	2606*	2607*	2602*	2603*	2604*	2605*	2606*	2607*
2608*	2609*	2610*	2611*	2612*	2613*	2608*	2609*	2610*	2611*	2612*	2613*
2614*	2615*	2616*	2617*	2618*	2619*	2614*	2615*	2616*	2617*	2618*	2619*
2620*	2621*	2622*	2623*	2624*	2625*	2620*	2621*	2622*	2623*	2624*	2625*
2626*	2627*	2628*	2629*	2630*	2631*	2626*	2627*	2628*	2629*	2630*	2631*
2632*	2633*	2634*	2635*	2636*	2637*	2632*	2633*	2634*	2635*	2636*	2637*
2638*	2639*	2640*	2641*	2642*	2643*	2638*	2639*	2640*	2641*	2642*	2643*
2644*	2645*	2646*	2647*	2648*	2649*	2644*	2645*	2646*	2647*	2648*	2649*
2650*	2651*	2652*	2653*	2654*	2655*	2650*	2651*	2652*	2653*	2654*	2655*
2656*	2657*	2658*	2659*	2660*	2661*	2656*	2657*	2658*	2659*	2660*	2661*
2662*	2663*	2664*	2665*	2666*	2667*	2662*	2663*	2664*	2665*	2666*	2667*
2668*	2669*	2670*	2671*	2672*	2673*	2668*	2669*	2670*	2671*	2672*	2673*
2674*	2675*	2676*	2677*	2678*	2679*	2674*	2675*	2676*	2677*	2678*	2679*
2680*	2681*	2682*	2683*	2684*	2685*	2680*	2681*	2682*	2683*	2684*	2685*
2686*	2687*	2688*	2689*	2690*	2691*	2686*	2687*	2688*	2689*	2690*	2691*
2692*	2693*	2694*	2695*	2696*	2697*	2692*	2693*	2694*	2695*	2696*	2697*
2698*	2699*	2700*	2701*	2702*	2703*	2698*	2699*	2700*	2701*	2702*	2703*
2704*	2705*	2706*	2707*	2708*	2709*	2704*	2705*	2706*	2707*	2708*	2709*
2710*	2711*	2712*	2713*	2714*	2715*	2710*	2711*	2712*	2713*	2714*	2715*
2716*	2717*	2718*	2719*	2720*	2721*	2716*	2717*	2718*	2719*	2720*	2721*
2722*	2723*	2724*	2725*	2726*	2727*	2722*	2723*	2724*	2725*	2726*	2727*
2728*	2729*	2730*	2731*	2732*	2733*	2728*	2729*	2730*	2731*	2732*	2733*
2734*	2735*	2736*	2737*	2738*	2739*	2734*	2735*	2736*	2737*	2738*	2739*
2740*	2741*	2742*	2743*	2744*	2745*	2740*	2741*	2742*	2743*	2744*	2745*
2746*	2747*	2748*	2749*	2750*	2751*	2746*	2747*	2748*	2749*	2750*	2751*
2752*	2753*	2754*	2755*	2756*	2757*	2752*	2753*	2754*	2755*	2756*	2757*
2758*	2759*	2760*	2761*	2762*	2763*	2758*	2759*	2760*	2761*	2762*	2763*
2764*	2765*	2766*	2767*	2768*	2769*	2764*	2765*	2766*	2767*	2768*	2769*
2770*	2771*	2772*	2773*	2774*	2775*	2770*	2771*	2772*	2773*	2774*	2775*
2776*	2777*	2778*	2779*	2780*	2781*	2776*	2777*	2778*	2779*	2780*	2781*
2782*	2783*	2784*	2785*	2786*	2787*	2782*	2783*	2784*	2785*	2786*	2787*
2788*	2789*	2790*	2791*	2792*	2793*	2788*	2789*	2790*	2791*	2792*	2793*
2794*	2795*	2796*	2797*	2798*	2799*	2794*	2795*	2796*	2797*	2798*	2799*
2800*	2801*	2802*	2803*	2804*	2805*	2800*	2801*	2802*	2803*	2804*	2805*
2806*	2807*	2808*	2809*	2810*	2811*	2806*	2807*	2808*	2809*	2810*	2811*
2812*	2813*	2814*	2815*	2816*	2817*	2812*	2813*	2814*	2815*	2816*	2817*
2818*	2819*	2820*	2821*	2822*	2823*	2818*	2819*	2820*	2821*	2822*	2823*
2824*	2825*	2826*	2827*	2828*	2829*	2824*	2825*	2826*	2827*	2828*	2829*
2830*	2831*	2832*	2833*	2834*	2835*	2830*	2831*	2832*	2833*	2834*	2835*
2836*	2837*	2838*	2839*	2840*	2841*	2836*	2837*	2838*	2839*	2840*	2841*
2842*	2843*	2844*	2845*	2846*	2847*	2842*	2843*	2844*	2845*	2846*	2847*
2848*	2849*	2850*	2851*	2852*	2853*	2848*	2849*	2850*	2851*	2852*	2853*
2854*	2855*	2856*	2857*	2858*	2859*	2854*	2855*	2856*	2857*	2858*	2859*
2860*	2861*	2862*	2863*	2864*	2865*	2860*	2861*	2862*	2863*	2864*	2865*
2866*	2867*	2868*	2869*	2870*	2871*	2866*	2867*	2868*	2869*	2870*	2871*
2872*	2873*	2874*	2875*	2876*	2877*	2872*	2873*	2874*	2875*	2876*	2877*
2878*	2879*	2880*	2881*	2882*	2883*	2878*	2879*	2880*	2881*	2882*	2883*
2884*	2885*	2886*	2887*	2888*	2889*	2884*	2885*	2886*	2887*	2888*	2889*
2890*	2891*	2892*	2893*	2894*	2895*	2890*	2891*	2892*	2893*	2894*	2895*
2896*	2897*	2898*	2899*	2900*	2901*	2896*	2897*	2898*	2899*	2900*	2901*
2902*	2903*	2904*	2905*	2906*	2907*	2902*	2903*	2904*	2905*	2906*	2907*
2908*	2909*	2910*	2911*	2912*	2913*	2908*	2909*	2910*	2911*	2912*	2913*
2914*	2915*	2916*	2917*	2918*	2919*	2914*	2915*	2916*	2917*	2918*	2919*
2920*	2921*	2922*	2923*	2924*	2925*	2920*	2921*	2922*	2923*	2924*	2925*
2926*	2927*	2928*	2929*	2930*	2931*	2926*	2927*	2928*	2929*	2930*	2931*
2932*	2933*	2934*	2935*	2936*	2937*	2932*	2933*	2934*	2935*	2936*	2937*
2938*	2939*	2940*	2941*	2942*	2943*	2938*	2939*	2940*	2941*	2942*	2943*
2944*	2945*	2946*	2947*	2948*	2949*	2944*	2945*	2946*	2947*	2948*	2949*
2950*	2951*	2952*	2953*	2954*	2955*	2950*	2951*	2952*	2953*	2954*	2955*

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 INTERNAL NAME CROSS-REFERENCE LISTING VAEA6 REV 77

INTERNAL NAME	TYPE	SIZE	ADDRESS #	CHAR/FORMAT	DEFIN	HEX VDA UNIT/STATE ISM	REFERENCED AT ISMS		
2978*			2979*			2980*	2981*	2982*	2983*
2984*			2985*			2986*	2987*	2988*	3014*
3015*			3016*			3017*	3018*	3019*	3020*
3021*			3022*			3023*	3024*	3034*	3035*
3036*			3037*			3038*	3039*	3040*	3041*
3042*			3043*			3044*	3045*	3046*	3083*
3084*			3085*			3086*	3087*	3088*	3089*
3090*			3091*			3092*	3093*	3131*	3132*
3133*			3134*			3135*	3136*	3137*	3138*
3147*			3148*			3149*	3150*	3151*	3152*
3158*			3159*			3160*	3161*	3175*	3176*
3177*			3178*			3179*	3180*	3181*	3182*
3183*			3184*			3185*	3186*	3187*	3188*
3200*			3201*			3202*	3203*	3204*	3205*
3206*			3207*			3208*	3209*	3210*	3211*
3212*			3213*			3229*	3230*	3231*	3232*
3233*			3234*			3235*	3236*	3237*	3238*
3239*			3251*			3252*	3253*	3254*	3255*
3256*			3257*			3258*	3266*	3267*	3268*
3269*			3270*			3271*	3272*	3279*	3280*
3281*			3282*			3283*	3284*	3296*	3297*
3298*			3299*			3300*	3301*	3302*	3309*
3310*			3311*			3312*	3313*	3314*	3315*
3322*			3323*			3324*	3325*	3326*	3338*
3339*			3340*			3341*	3342*	3343*	3344*
3345*			3358*			3359*	3360*	3361*	3362*
3363*			3364*			3365*	3378*	3379*	3380*
3381*			3382*			3383*	3384*	3396*	3397*
3398*			3399*			3400*	3401*	3402*	3403*
3410*			3411*			3412*	3413*	3414*	3415*
3416*			3417*			3423*	3424*	3425*	3426*
3427*			3428*			3440*	3441*	3442*	3443*
3444*			3450*			3451*	3452*	3453*	3454*
3461*			3462*			3463*	3464*	3476*	3477*
3478*			3484*			3485*	3486*	3493*	3494*
3506*			3507*			3508*	3509*	3510*	3511*
3512*			3518*			3519*	3521*	3522*	
3523*			3524*			3531*	3532*	3533*	3534*
3535*			3536*			3550*	3551*	3552*	3553*
3554*			3555*			3556*	3557*	3558*	3563*
3564*			3565*			3566*	3567*	3568*	3569*
3570*			3571*			3576*	3577*	3578*	3579*

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 INTERNAL NAME CROSS-REFERENCE LISTING VAEA6 REV 77

INTERNAL NAME	TYPE	SIZE	ADDRESS	HEX VDA	UNIT/STATE	ISN	REFERENCED AT ISMS
3580*			3581*	3582*	3583*	3599*	3600*
3601*			3602*	3603*	3604*	3605*	3606*
3607*			3608*	3609*	3610*	3611*	3612*
3613*			3614*	3615*	3616*	3619*	3620*
3621*			3622*	3623*	3624*	3625*	3626*
3627*			3628*	3629*	3630*	3631*	3632*
3633*			3634*	3635*	3636*	3639*	3640*
3641*			3642*	3643*	3644*	3645*	3646*
3647*			3648*	3649*	3650*	3651*	3652*
3653*			3654*	3655*	3667*	3668*	3669*
3670*			3671*	3672*	3673*	3674*	3675*
3681*			3682*	3683*	3684*	3685*	3686*
3687*			3688*	3689*	3696*	3697*	3698*
3699*			3700*	3701*	3702*	3703*	3704*
3718*			3719*	3720*	3721*	3722*	3723*
3724*			3725*	3726*	3727*	3728*	3729*
3730*			3735*	3736*	3737*	3738*	3739*
3740*			3741*	3742*	3743*	3744*	3745*
3746*			3747*	3752*	3753*	3754*	3755*
3756*			3757*	3758*	3759*	3760*	3761*
3762*			3763*	3764*	3780*	3781*	3782*
3783*			3784*	3785*	3786*	3787*	3788*
3789*			3790*	3791*	3792*	3795*	3796*
3797*			3798*	3799*	3800*	3801*	3802*
3803*			3804*	3805*	3806*	3807*	3810*
3811*			3812*	3813*	3814*	3815*	3816*
3817*			3818*	3819*	3820*	3821*	3822*
3838*			3839*	3840*	3841*	3842*	3843*
3844*			3845*	3846*	3849*	3850*	3851*
3852*			3853*	3854*	3855*	3856*	3857*
3860*			3861*	3862*	3863*	3864*	3865*
3866*			3867*	3868*	3882*	3883*	3884*
3885*			3886*	3887*	3888*	3889*	3898*
3899*			3900*	3901*	3902*	3903*	3904*
3905*			3913*	3914*	3915*	3916*	3917*
3918*			3919*	3931*	3932*	3933*	3934*
3935*			3940*	3941*	3942*	3943*	3946*
3947*			3948*	3949*	3961*	3975*	3976*
3977*			3978*	3979*	3980*	3981*	3982*
3983*			3984*	3985*	3986*	4013*	4014*
4015*			4016*	4017*	4018*	4019*	4020*
4021*			4022*	4023*	4024*	4051*	4052*

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 INTERNAL NAME CROSS-REFERENCE LISTING VAEA6 REV 77

HEX VDA UNIT/STATE ISN

INTERNAL NAME TYPE SIZE ADDRESS #CHAR/FORMAT DEFINED REFERENCED AT ISNS  
 4053\* 4054\* 4055\* 4056\* 4057\* 4058\*  
 4059\* 4060\* 4061\* 4062\* 4073\* 4074\*  
 4075\* 4076\* 4077\* 4078\* 4372\* 4373\*  
 4374\*

(ACTUAL)\* COLUMN 60 COLUMN 2 8  
 293 294 295 296 297 298  
 299 300 302\* 304 306 307  
 308 309 310 311 312 313  
 314 315 316 317 324 324  
 347 347

(EXPECTED) COLUMN 60 COLUMN 1 8  
 293 294 295 296 297 298  
 299 300 303 306 307 308  
 309 310 311 312 313 314  
 315 316 317 324 324 339  
 340 341 344 346 346 1112  
 1113 1114 1115 1116 1117 1118  
 1119 1120 1121 1122 1123 1124  
 1160 1161 1162 1163 1164 1165  
 1166 1167 1168 1169 1170 1171  
 1207 1208 1209 1210 1211 1212  
 1213 1214 1215 1231 1232 1233  
 1234 1235 1236 1237 1238 1239  
 1240 1241 1242 1271 1272 1273  
 1274 1275 1276 1277 1278 1279  
 1280 1281 1282 1311 1312 1313  
 1314 1315 1316 1317 1318 1319  
 1320 1344 1345 1346 1347 1348  
 1349 1350 1351 1352 1353 1384  
 1385 1386 1387 1388 1389 1390  
 1391 1392 1393 1423 1424 1425  
 1426 1427 1428 1429 1430 1431  
 1443 1444 1445 1446 1447 1448  
 1449 1450 1451 1452 1453 1454  
 1455 1488 1489 1490 1491 1492  
 1493 1494 1495 1496 1497 1498  
 1499 1527 1528 1529 1530 1531  
 1532 1533 1549 1550 1551 1552  
 1553 1554 1555 1556 1557 1558  
 1559 1560 1569 1590 1591 1592  
 1593 1594 1595 1596 1597 1598  
 1599 1600 1629 1630 1631 1632  
 1633 1634 1635 1636 1637 1638  
 1650 1651 1652 1653 1654 1655





VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6	REV	77	INTERNAL NAME	CROSS-REFERENCE LISTING	VAEA6	REV	77	INTERNAL NAME	HEX VDA UNIT/STATE ISN	SIZE	ADDRESS #CHAR/FORMAT	DEFINED	INTERNAL NAME	TYPE	REFERENCED AT ISNS
															2515 2516 2517 2518 2519 2520
															2521 2522 2555 2556 2557 2558
															2559 2560 2561 2562 2563 2583
															2584 2585 2586 2587 2588 2589
															2590 2591 2592 2593 2594 2595
															2596 2628 2629 2630 2631 2632
															2633 2634 2635 2636 2637 2638
															2639 2672 2673 2674 2675 2676
															2677 2678 2679 2680 2681 2709
															2710 2711 2712 2713 2714 2715
															2716 2717 2718 2719 2754 2755
															2756 2757 2758 2759 2760 2761
															2762 2763 2764 2798 2799 2800
															2801 2802 2803 2804 2805 2806
															2807 2819 2820 2821 2822 2823
															2824 2825 2826 2827 2828 2829
															2830 2831 2832 2870 2871 2872
															2873 2874 2875 2876 2877 2878
															2879 2880 2881 2914 2915 2916
															2917 2918 2919 2920 2921 2922
															2936 2937 2938 2939 2940 2941
															2942 2943 2944 2945 2946 2947
															2948 2978 2979 2980 2981 2982
															2983 2984 2985 2986 2987 2988
															3016 3017 3018 3019 3020 3021
															3022 3023 3024 3034 3035 3036
															3037 3038 3039 3040 3041 3042
															3043 3044 3045 3046 3083 3084
															3085 3086 3087 3088 3089 3090
															3091 3092 3093 3135 3136 3137
															3138 3151 3152 3186 3187 3188
															3211 3212 3213 3257 3258 3272
															3300 3301 3302 3313 3314 3315
															3326 3345 3365 3402 3403 3416
															3417 3444 3454 3478 3486 3512
															3524 3558 3571 3616 3636 3675
															3689 3704 3730 3747 3764 3792
															3807 3822 3846 3857 3868 3889
															3905 3935 3961 3975 3976 3977
															3978 3979 3980 3981 3982 3983
															3984 3985 3986 4013 4014 4015
															4016 4017 4018 4019 4020 4021

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6	REV	77	INTERNAL NAME	CROSS-REFERENCE LISTING	VAEA6	REV	77	INTERNAL NAME	CROSS-REFERENCE LISTING				
			INTERNAL NAME	TYPE	SIZE	ADDRESS	UNIT/STATE	ISN	HEX VDA	CHAR/FORMAT	DEFINED	ISN	REFERENCED AT
			(NOPOWER)	COLUMN	60		COLUMN	3	8				AT ISNS
													4022 4023 4024 4051 4052 4053
													4054 4055 4056 4057 4058 4059
													4060 4061 4062 4073 4074 4075
													4076 4077 4078 4372
													323 1110 1111 1158 1159 1205
													1206 1227 1228 1229 1230 1267
													1268 1269 1270 1307 1308 1309
													1340 1334 1335 1336 1337 1338
													1339 1340 1341 1342 1343 1374
													1375 1376 1377 1378 1379 1380
													1381 1382 1383 1413 1414 1415
													1416 1417 1418 1419 1420 1421
													1422 1441 1442 1486 1487 1525
													1526 1545 1546 1547 1548 1585
													1586 1587 1588 1625 1626 1627
													1628 1648 1649 1701 1702 1742
													1743 1761 1762 1808 1809 1853
													1854 1875 1876 1877 1878 1879
													1880 1915 1916 1917 1918 1919
													1920 1956 1957 1958 1959 1960
													1961 1984 1985 1986 1987 1988
													1989 1990 1991 1992 1993 1994
													1995 1996 1997 2028 2029 2030
													2031 2032 2033 2034 2035 2036
													2037 2038 2039 2040 2041 2071
													2072 2073 2074 2075 2076 2077
													2078 2079 2080 2081 2082 2083
													2084 2103 2104 2153 2154 2193
													2194 2214 2215 2216 2217 2218
													2219 2220 2221 2258 2259 2260
													2261 2262 2263 2264 2265 2302
													2303 2304 2305 2306 2307 2308
													2309 2329 2330 2331 2332 2379
													2380 2381 2382 2425 2426 2427
													2428 2446 2447 2448 2449 2506
													2507 2508 2509 2551 2552 2553
													2554 2575 2576 2577 2578 2579
													2580 2581 2582 2620 2621 2622
													2623 2624 2625 2626 2627 2664
													2665 2666 2667 2668 2669 2670
													2671 2695 2696 2697 2698 2699
													2700 2701 2702 2703 2704 2705

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6	REV	77	INTERNAL NAME	CROSS-REFERENCE	LISTING	VAEA6	REV	77	REFERENCED AT	ISNS
INTERNAL NAME	TYPE	SIZE	ADDRESS	#CHAR/FORMAT	DEFINED	HEX VDA	UNIT/STATE	ISN		
2706	2707	2708	2740	2741	2742					
2743	2744	2745	2746	2747	2748					
2749	2750	2751	2752	2753	2784					
2785	2786	2787	2788	2789	2790					
2791	2792	2793	2794	2795	2796					
2797	2817	2818	2868	2869	2912					
2913	2934	2935	2976	2977	3014					
3045	3131	3132	3133	3134	3147					
3148	3149	3150	3158	3159	3160					
3161	3175	3176	3177	3178	3179					
3180	3181	3182	3184	3185	3200					
3201	3202	3203	3204	3205	3206					
3207	3209	3210	3229	3230	3231					
3232	3233	3234	3235	3236	3238					
3239	3251	3252	3253	3254	3255					
3256	3266	3267	3268	3269	3270					
3271	3279	3280	3281	3282	3283					
3284	3296	3297	3298	3299	3309					
3310	3311	3312	3322	3323	3324					
3325	3338	3339	3340	3341	3343					
3344	3358	3359	3360	3361	3363					
3364	3378	3379	3380	3381	3383					
3384	3396	3397	3398	3399	3400					
3401	3410	3411	3412	3413	3414					
3415	3423	3424	3425	3426	3427					
3428	3440	3441	3442	3443	3450					
3451	3452	3453	3461	3462	3463					
3464	3476	3477	3484	3485	3493					
3494	3506	3507	3508	3509	3510					
3511	3518	3519	3520	3521	3522					
3523	3531	3532	3533	3534	3535					
3536	3550	3551	3552	3553	3554					
3555	3556	3557	3563	3564	3565					
3566	3567	3568	3569	3570	3576					
3577	3578	3579	3580	3581	3582					
3583	3599	3600	3601	3602	3603					
3604	3605	3606	3607	3608	3609					
3610	3611	3612	3614	3615	3619					
3620	3621	3622	3623	3624	3625					
3626	3627	3628	3629	3630	3631					
3632	3634	3635	3639	3640	3641					
3642	3643	3644	3645	3646	3647					

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE6 REV 77 INTERNAL NAME CROSS-REFERENCE LISTING VAE6 REV 77

INTERNAL NAME	TYPE	SIZE	ADDRESS	HEX VDA	UNIT/STATE	ISN	REFERENCED AT ISNS
							3648 3649 3650 3651 3652 3654
							3655 3667 3668 3669 3670 3671
							3672 3673 3674 3681 3682 3683
							3684 3685 3686 3687 3688 3696
							3697 3698 3699 3700 3701 3702
							3703 3718 3719 3720 3721 3722
							3723 3724 3725 3726 3727 3728
							3729 3735 3736 3737 3738 3739
							3740 3741 3742 3743 3744 3745
							3746 3752 3753 3754 3755 3756
							3757 3758 3759 3760 3761 3762
							3763 3780 3781 3782 3783 3784
							3785 3786 3787 3788 3789 3790
							3791 3795 3796 3797 3798 3799
							3800 3801 3802 3803 3804 3805
							3806 3810 3811 3812 3813 3814
							3815 3816 3817 3818 3819 3820
							3821 3838 3839 3840 3841 3842
							3843 3844 3845 3849 3850 3851
							3852 3853 3854 3855 3856 3860
							3861 3862 3863 3864 3865 3866
							3867 3882 3883 3884 3885 3887
							3888 3898 3899 3900 3901 3903
							3904 3913 3914 3915 3916 3918
							3919 3931 3932 3933 3934 3940
							3941 3942 3943 3946 3947 3948
							3949 4373
(NPOWER2)	COLUMN	60		COLUMN	4	8	522 3183 5208 5237 5342 5362
							3382 3613 3633 3653 3886 3902
							3917 4374
(SWITCHNAME)*	NUMERIC	1	0008	DEC		2	326* 327 328 332 352 355
							584 580 580 583 583
							386 386 386 386 386 386
							589 404 409 409 413 414
							418 422 426 430 434 438
							443 443 446 447 452 457
							462 469 485
(TERMPGM)*	NUMERIC	1	0007	DEC		2	188 349 990 995* 4080* 4315
(TEST)*	NUMERIC	1	0006	DEC		2	165 166 166* 167* 167 167
							168 175 175* 176 194 195
							196 197 198 199 200 201
							202 203 204 205 206 207

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6	REV	77	INTERNAL NAME	CROSS-REFERENCE LISTING	VAEA6	REV	77				
			INTERNAL NAME	TYPE	SIZE	ADDRESS	#CHAR/FORMAT	DEFINED	HEX VDA UNIT/STATE	ISN	REFERENCED AT ISNS
											208 209 210 211 212 213
											214 215 216 217 218 219
											220 221 222 223 224 225
											226 227 228 229 230 243
											244 245 246 247 248 284
											284 284 284 284 284 354
											553 554 555 571 572
											587 599 600 601 616 617
											631 646 647 648 659 660
											674 675 676 677 688 689
											690 691 692 693 694 695
											696 697 698 699 700 701
											702 731 732 748 764 780
											796 812 828 844 909 926
											926 926 926 926 926 926
											926 926 991* 991 992 992*
											993* 993 1063 1064 1065 1066
											1067 1068 1069 1070 1071 1072
											1073 1074 1075 1076 1077 1078
											1079 1080 1081 1082 1083 1084
											1085 1086 1087 1088 1089 1090
											1091 1092 1093 1094 1095 1096
											1097 1098 1099 1105* 1220* 1325*
											1436* 1538* 1643* 1756* 1868* 1975*
											2098* 2207* 2324* 2441* 2568* 2686*
											2812* 2927* 3029* 3124* 3166* 3244*
											3289* 3331* 3389* 3433* 3469* 3499*
											3541* 3588* 3660* 3709* 3769* 3827*
											3873* 3924* 3954* 3972* 4297 4301
											4302 4310
											163* 173* 177
(TESTB)*											726 1052* 1040*
(TESTSCTGORSCLM)*											97 305 196* 197* 198* 199*
(TESTNAME)*											200* 201* 202* 203* 204* 205*
											206* 207* 208* 209* 210* 211*
											212* 213* 214* 215* 216* 217*
											218* 219* 220* 221* 222* 223*
											224* 225* 226* 227* 228* 229*
											230* 231 553* 554* 555* 558*
											571* 574* 589* 599* 600* 603*
											616* 619* 633* 646* 647* 650*
											659* 662* 674* 675* 676* 679*

NUMERIC	1	0005	DEC
NUMERIC	1	0004	DEC
TEXT	1	01A8R	32

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

INTERNAL NAME	TYPE	SIZE	ADDRESS	#CHAR/FORMAT	DEFIN	ISN	REFERENCED AT	ISNS
(TMP)*	NUMERIC	1	0003	DEC	2		688* 689* 690* 691* 692* 693*	694* 695* 696* 697* 698* 699*
(TMPP1)*	NUMERIC	1	0002	DEC	2		700* 701* 702* 716 717	319* 321 322 323 324 324
(TMPP2)*	NUMERIC	1	0001	DEC	2		339 346 347 354 865	867 872* 874 876
(TPOS)*	NUMERIC	1	0000	DEC	2		344 346 347 354	344 346 347 354
(UFLAG)*	STATE	1	0090R	ON/OFF	4		233* 241 322 377 392 490	532
(UFLAG2)*	STATE	1	0090L	ON/OFF	4		407* 408* 410 410 412 445	1009* 4183 4212 4222 4232*
(UFLAG3)*	QUANTITY	6X 2	004E	PSIG	11		1010* 4156* 4252	733* 734* 735* 736* 737* 738*
							739* 740* 741* 742* 743* 744*	749* 750* 751* 752* 753* 754*
							755* 756* 757* 758* 759* 760*	765* 766* 767* 768* 769* 770*
							771* 772* 773* 774* 775* 776*	771* 772* 773* 774* 775* 776*
							781* 782* 783* 784* 785* 786*	781* 782* 783* 784* 785* 786*
							787* 788* 789* 790* 791* 792*	787* 788* 789* 790* 791* 792*
							797* 798* 799* 800* 801* 802*	797* 798* 799* 800* 801* 802*
							803* 804* 805* 806* 807* 808*	803* 804* 805* 806* 807* 808*
							813* 814* 815* 816* 817* 818*	813* 814* 815* 816* 817* 818*
							819* 820* 821* 822* 823* 824*	819* 820* 821* 822* 823* 824*
							829* 830* 831* 832* 833* 834*	829* 830* 831* 832* 833* 834*
							835* 836* 837* 838* 839* 840*	835* 836* 837* 838* 839* 840*
							847* 848* 849* 850* 851* 852*	847* 848* 849* 850* 851* 852*
							853* 854* 855* 856* 857* 858*	853* 854* 855* 856* 857* 858*
							885 899	885 899
(HIGH)	COLUMN	6		COLUMN	2	11	734 736 738 740 742 744	750 752 754 756 758 760
							766 768 770 772 774 776	782 784 786 788 790 792
							798 800 802 804 806 808	814 816 818 820 822 824
							830 832 834 836 838 840	848 850 852 854 856 858
(LOW)	COLUMN	6		COLUMN	1	11	885 899	733 735 737 739 741 743
							749 751 753 755 757 759	765 767 769 771 773 775

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 INTERNAL NAME CROSS-REFERENCE LISTING VAEA6 REV 77

INTERNAL NAME	TYPE	SIZE	ADDRESS	#CHAR/FORMAT	DEFINED	ISN	HEX VDA	UNIT/STATE	ON/OFF	STATE	**X 2	00ABL	ON/OFF	VAEA6	REV	77	REFERENCED AT ISNS
(VALVE1)*						9											781 783 785 787 789 791
																	797 799 801 803 805 807
																	813 815 817 819 821 823
																	829 831 833 835 837 839
																	847 849 851 853 855 857
																	865 867 869 871 873 875
																	881 883 885 887 889 891
																	897 901 905 909 913 917
																	921 925 929 933 937 941
																	945 949 953 957 961 965
																	969 973 977 981 985 989
																	993 997 1001 1005 1009 1013
																	1017 1021 1025 1029 1033 1037
																	1041 1045 1049 1053 1057 1061
																	1065 1069 1073 1077 1081 1085
																	1089 1093 1097 1101 1105 1109
																	1113 1117 1121 1125 1129 1133
																	1137 1141 1145 1149 1153 1157
																	1161 1165 1169 1173 1177 1181
																	1185 1189 1193 1197 1201 1205
																	1209 1213 1217 1221 1225 1229
																	1233 1237 1241 1245 1249 1253
																	1257 1261 1265 1269 1273 1277
																	1281 1285 1289 1293 1297 1301
																	1305 1309 1313 1317 1321 1325
																	1329 1333 1337 1341 1345 1349
																	1353 1357 1361 1365 1369 1373
																	1377 1381 1385 1389 1393 1397
																	1401 1405 1409 1413 1417 1421
																	1425 1429 1433 1437 1441 1445
																	1449 1453 1457 1461 1465 1469
																	1473 1477 1481 1485 1489 1493
																	1497 1501 1505 1509 1513 1517
																	1521 1525 1529 1533 1537 1541
																	1545 1549 1553 1557 1561 1565
																	1569 1573 1577 1581 1585 1589
																	1593 1597 1601 1605 1609 1613
																	1617 1621 1625 1629 1633 1637
																	1641 1645 1649 1653 1657 1661
																	1665 1669 1673 1677 1681 1685

VAE6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE6 REV 77 INTERNAL NAME CROSS-REFERENCE LISTING VAEA6 REV 77 REFERENCED AT ISNS

INTERNAL NAME TYPE SIZE ADDRESS #CHAR/FORMAT DEFINED HEX VDA UNIT/STATE ISN

1671*	1672*	1673*	1674*	1675*	1676*	1677*	1678*	1679*	1680*	1681*	1682*	1683*	1684*	1685*	1686*	1687*	1688*	1689*	1690*	1691*	1692*	1717*	1718*	1719*	1720*	1721*	1722*	1723*	1724*	1725*	1726*	1727*	1728*	1729*	1730*	1731*	1732*	1733*	1734*	1735*	1776*	1777*	1778*	1779*	1780*	1781*	1782*	1783*	1784*	1785*	1786*	1787*	1788*	1789*	1790*	1791*	1792*	1793*	1794*	1795*	1796*	1797*	1798*	1822*	1823*	1824*	1825*	1826*	1827*	1828*	1829*	1830*	1831*	1832*	1833*	1834*	1835*	1836*	1837*	1838*	1839*	1840*	1841*	1842*	1843*	1844*	1892*	1893*	1894*	1895*	1896*	1897*	1898*	1899*	1900*	1901*	1902*	1903*	1904*	1905*	1906*	1932*	1933*	1934*	1935*	1936*	1937*	1938*	1939*	1940*	1941*	1942*	1943*	1944*	1945*	1946*	1947*	2008*	2009*	2010*	2011*	2012*	2013*	2014*	2015*	2016*	2017*	2018*	2019*	2052*	2053*	2054*	2055*	2056*	2057*	2058*	2059*	2060*	2061*	2062*	2121*	2122*	2123*	2124*	2125*	2126*	2127*	2128*	2129*	2130*	2131*	2132*	2133*	2134*	2135*	2136*	2137*	2138*	2139*	2140*	2141*	2142*	2143*	2168*	2169*	2170*	2171*	2172*	2173*	2174*	2175*	2176*	2177*	2178*	2179*	2180*	2181*	2182*	2183*	2184*	2234*	2235*	2236*	2237*	2238*	2239*	2240*	2241*	2242*	2243*	2244*	2245*	2246*	2247*	2248*	2278*	2279*	2280*	2281*	2282*	2283*	2284*	2285*	2286*	2287*	2288*	2289*	2290*	2291*	2292*	2347*	2348*	2349*	2350*	2351*	2352*	2353*	2354*	2355*	2356*	2357*	2358*	2359*	2560*	2561*	2362*	2363*	2364*	2365*	2366*	2367*	2368*	2397*	2398*	2399*	2400*	2401*	2402*	2403*	2404*	2405*	2406*	2407*	2408*	2409*	2410*	2411*	2412*	2413*
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------



VAE66 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE66 REV 77 INTERNAL NAME CROSS-REFERENCE LISTING VAE66 REV 77

INTERNAL NAME	TYPE	SIZE	ADDRESS #	CHAR/FORMAT	DEFINED	ISN	HEX VDA	UNIT/STATE	REFERENCED AT	ISMS				
									2414*	2467*	2468*	2469*	2470*	2471*
									2472*	2473*	2474*	2475*	2476*	2477*
									2478*	2479*	2480*	2481*	2482*	2483*
									2484*	2485*	2486*	2487*	2488*	2489*
									2490*	2491*	2492*	2493*	2494*	2495*
									2496*	2497*	2523*	2524*	2525*	2526*
									2527*	2528*	2529*	2530*	2531*	2532*
									2533*	2534*	2535*	2536*	2537*	2538*
									2539*	2540*	2541*	2542*	2543*	2544*
									2597*	2598*	2599*	2600*	2601*	2602*
									2603*	2604*	2605*	2606*	2607*	2608*
									2609*	2610*	2611*	2640*	2641*	2642*
									2643*	2644*	2645*	2646*	2647*	2648*
									2649*	2650*	2651*	2652*	2653*	2654*
									2655*	2720*	2721*	2722*	2723*	2724*
									2725*	2726*	2727*	2728*	2729*	2730*
									2731*	2732*	2765*	2766*	2767*	2768*
									2769*	2770*	2771*	2772*	2773*	2774*
									2775*	2776*	2833*	2834*	2835*	2836*
									2837*	2838*	2839*	2840*	2841*	2842*
									2843*	2844*	2845*	2846*	2847*	2848*
									2849*	2850*	2851*	2852*	2853*	2854*
									2855*	2856*	2857*	2882*	2883*	2884*
									2885*	2886*	2887*	2888*	2889*	2890*
									2891*	2892*	2893*	2894*	2895*	2896*
									2897*	2898*	2899*	2900*	2901*	2949*
									2950*	2951*	2952*	2953*	2954*	2955*
									2956*	2957*	2958*	2959*	2960*	2961*
									2962*	2963*	2964*	2965*	2966*	2989*
									2990*	2991*	2992*	2993*	2994*	2995*
									2996*	2997*	2998*	2999*	3000*	3001*
									3002*	3003*	3004*	3047*	3048*	3049*
									3050*	3051*	3052*	3053*	3054*	3055*
									3056*	3057*	3058*	3059*	3060*	3061*
									3062*	3063*	3064*	3065*	3066*	3067*
									3068*	3069*	3070*	3071*	3072*	3073*
									3094*	3095*	3096*	3097*	3098*	3099*
									3100*	3101*	3102*	3103*	3104*	3105*
									3106*	3107*	3108*	3109*	3110*	3111*
									3139*	3140*	3141*	3142*	3143*	3144*
									3153*	3154*	3155*	3189*	3191*	3192*
									3193*	3194*	3195*	3196*	3197*	3214*

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

INTERNAL NAME CROSS-REFERENCE LISTING

INTERNAL NAME	REV	77	VAEA6	INTERNAL NAME CROSS-REFERENCE LISTING	VAEA6	REV	77	REFERENCED AT ISNS
INTERNAL NAME	REV	77	VAEA6	INTERNAL NAME CROSS-REFERENCE LISTING	VAEA6	REV	77	REFERENCED AT ISNS
3216*	3217*	3218*	3219*	3220*	3221*	3216*	3217*	3218*
3222*	3223*	3224*	3225*	3226*	3227*	3222*	3223*	3224*
3260*	3261*	3262*	3263*	3264*	3265*	3260*	3261*	3262*
3275*	3276*	3277*	3278*	3279*	3280*	3275*	3276*	3277*
3316*	3317*	3318*	3319*	3320*	3321*	3316*	3317*	3318*
3349*	3350*	3351*	3352*	3353*	3354*	3349*	3350*	3351*
3355*	3356*	3357*	3358*	3359*	3360*	3355*	3356*	3357*
3372*	3373*	3374*	3375*	3376*	3377*	3372*	3373*	3374*
3406*	3407*	3408*	3409*	3410*	3411*	3406*	3407*	3408*
3446*	3447*	3448*	3449*	3450*	3451*	3446*	3447*	3448*
3479*	3480*	3481*	3482*	3483*	3484*	3479*	3480*	3481*
3498*	3499*	3500*	3501*	3502*	3503*	3498*	3499*	3500*
3527*	3528*	3529*	3530*	3531*	3532*	3527*	3528*	3529*
3676*	3677*	3678*	3679*	3680*	3681*	3676*	3677*	3678*
3693*	3694*	3695*	3696*	3697*	3698*	3693*	3694*	3695*
3892*	3893*	3894*	3895*	3896*	3897*	3892*	3893*	3894*
3909*	3910*	3911*	3912*	3913*	3914*	3909*	3910*	3911*
3987*	3988*	3989*	3990*	3991*	3992*	3987*	3988*	3989*
3993*	3994*	3995*	3996*	3997*	3998*	3993*	3994*	3995*
3999*	4000*	4001*	4002*	4003*	4004*	3999*	4000*	4001*
4027*	4028*	4029*	4030*	4031*	4032*	4027*	4028*	4029*
4033*	4034*	4035*	4036*	4037*	4038*	4033*	4034*	4035*
4039*	4040*	4041*	4042*	4043*	4044*	4039*	4040*	4041*
563	564	565	566	567	568	563	564	565
608	609	610	611	612	613	608	609	610
627	628	629	630	631	632	627	628	629
668	669	670	671	672	673	668	669	670
727*	728*	729*	730*	731*	732*	727*	728*	729*
883	884	885	886	887	888	883	884	885
1129	1130	1131	1132	1133	1134	1129	1130	1131
1135	1136	1137	1138	1139	1140	1135	1136	1137
1141	1142	1143	1144	1145	1146	1141	1142	1143
1147	1148	1149	1150	1151	1152	1147	1148	1149
1177	1178	1179	1180	1181	1182	1177	1178	1179
1183	1184	1185	1186	1187	1188	1183	1184	1185
1189	1190	1191	1192	1193	1194	1189	1190	1191
1243	1244	1245	1246	1247	1248	1243	1244	1245
1249	1250	1251	1252	1253	1254	1249	1250	1251
1255	1256	1257	1258	1259	1260	1255	1256	1257
1286	1287	1288	1289	1290	1291	1286	1287	1288
1292	1293	1294	1295	1296	1297	1292	1293	1294
1354	1355	1356	1357	1358	1359	1354	1355	1356

(EXPECTED)\*

COLUMN 100

COLUMN 9

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6	REV	77	INTERNAL NAME	CROSS-REFERENCE LISTING	VAEA6	REV	77	REFERENCED AT ISNS			
								INTERNAL NAME			
								HEX VDA UNIT/STATE ISN			
								SIZE ADDRESS #CHAR/FORMAT DEFINED			
								TYPE			
1360	1361	1362	1363	1364	1365	1366	1394	1395	1396	1397	1398
1399	1400	1401	1402	1403	1404	1405	1456	1457	1458	1459	1460
1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472
1473	1474	1475	1476	1500	1501	1502	1503	1504	1505	1506	1507
1508	1509	1510	1511	1512	1513	1514	1515	1516	1561	1562	1563
1564	1565	1566	1567	1568	1569	1570	1571	1572	1573	1574	1575
1576	1577	1601	1602	1603	1604	1605	1606	1607	1608	1609	1610
1611	1612	1613	1614	1615	1616	1617	1665	1666	1667	1668	1669
1670	1671	1672	1673	1674	1675	1676	1677	1678	1679	1680	1681
1682	1683	1684	1685	1686	1687	1688	1689	1690	1691	1692	1716
1717	1718	1719	1720	1721	1722	1723	1724	1725	1726	1727	1728
1729	1730	1731	1732	1733	1734	1735	1776	1777	1778	1779	1780
1781	1782	1783	1784	1785	1786	1787	1788	1789	1790	1791	1792
1793	1794	1795	1796	1797	1798	1822	1823	1824	1825	1826	1827
1828	1829	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839
1840	1841	1842	1843	1844	1892	1893	1894	1895	1896	1897	1898
1899	1900	1901	1902	1903	1904	1905	1906	1932	1933	1934	1935
1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947
2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2120
2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6	REV	77	INTERNAL NAME	CROSS-REFERENCE LISTING	VAEA6	REV	77	INTERNAL NAME	CROSS-REFERENCE LISTING	VAEA6	REV	77	INTERNAL NAME	CROSS-REFERENCE LISTING						
				TYPE	SIZE	ADDRESS	#CHAR/FORMAT	DEFINED	ISN					REFERENCED AT	ISNS					
															2133	2134	2135	2136	2137	2138
															2139	2140	2141	2142	2143	2144
															2169	2170	2171	2172	2173	2174
															2175	2176	2177	2178	2179	2180
															2181	2182	2183	2184	2234	2235
															2236	2237	2238	2239	2240	2241
															2242	2243	2244	2245	2246	2247
															2248	2249	2250	2251	2252	2253
															2283	2284	2285	2286	2287	2288
															2289	2290	2291	2292	2347	2348
															2349	2350	2351	2352	2353	2354
															2355	2356	2357	2358	2359	2360
															2361	2362	2363	2364	2365	2366
															2367	2368	2369	2370	2371	2372
															2401	2402	2403	2404	2405	2406
															2407	2408	2409	2410	2411	2412
															2413	2414	2415	2416	2417	2418
															2471	2472	2473	2474	2475	2476
															2477	2478	2479	2480	2481	2482
															2483	2484	2485	2486	2487	2488
															2489	2490	2491	2492	2493	2494
															2495	2496	2497	2498	2499	2500
															2526	2527	2528	2529	2530	2531
															2532	2533	2534	2535	2536	2537
															2538	2539	2540	2541	2542	2543
															2544	2545	2546	2547	2548	2549
															2602	2603	2604	2605	2606	2607
															2608	2609	2610	2611	2612	2613
															2642	2643	2644	2645	2646	2647
															2648	2649	2650	2651	2652	2653
															2654	2655	2656	2657	2658	2659
															2724	2725	2726	2727	2728	2729
															2730	2731	2732	2733	2734	2735
															2768	2769	2770	2771	2772	2773
															2774	2775	2776	2777	2778	2779
															2836	2837	2838	2839	2840	2841
															2842	2843	2844	2845	2846	2847
															2848	2849	2850	2851	2852	2853
															2854	2855	2856	2857	2858	2859
															2884	2885	2886	2887	2888	2889
															2890	2891	2892	2893	2894	2895
															2896	2897	2898	2899	2900	2901

VAE66 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAE66 REV 77 INTERNAL NAME CROSS-REFERENCE LISTING VAE66 REV 77

INTERNAL NAME	TYPE	SIZE	ADDRESS #	CHAR/FORMAT	DEFINED	ISN	HEX VDA UNIT/STATE	REFERENCED AT ISMS
								2949 2950 2951 2952 2953 2954
								2955 2956 2957 2958 2959 2960
								2961 2962 2963 2964 2965 2966
								2989 2990 2991 2992 2993 2994
								2995 2996 2997 2998 2999 3000
								3001 3002 3003 3004 3007 3048
								3049 3050 3051 3052 3053 3054
								3055 3056 3057 3058 3059 3060
								3061 3062 3063 3064 3065 3066
								3067 3068 3069 3070 3071 3072
								3073 3094 3095 3096 3097 3098
								3099 3100 3101 3102 3103 3104
								3105 3106 3107 3108 3109 3110
								3111 3139 3140 3141 3142 3143
								3144 3153 3154 3155 3217 3219
								3222 3223 3229 3260 3261 3262
								3263 3273 3274 3275 3276 3303
								3304 3305 3306 3316 3317 3318
								3319 3404 3405 3406 3407 3418
								3419 3420 3445 3446 3447 3455
								3456 3457 3458 3479 3480 3481
								3487 3488 3489 3490 3513 3514
								3515 3525 3526 3527 3528 3559
								3560 3572 3573 3676 3677 3678
								3690 3691 3692 3693 3731 3732
								3748 3749 3892 3936 3937 3962
								3963 3987 3988 3989 3990 3991
								3992 3993 3994 3995 3996 3997
								3998 3999 4000 4001 4002 4025
								4026 4027 4028 4029 4030 4031
								4032 4033 4034 4035 4036 4037
								4038 4039 4040 4375
								865 3189 3191 3192 3193 3194
								3195 3196 3197 3214 3216 3218
								3220 3221 3224 3225 3226 3346
								3348 3349 3350 3351 3352 3353
								3354 3355 3366 3368 3369 3370
								3371 3372 3373 3374 3375 3690
								3893 3894 3895 3906 3908 3909
								3910 4377

(NOPOWER)

(VALVE2)\*

STATE 8X 2 00A0L ON/OFF 10 566\* 567\* 582\* 583\* 595\* 612\* 641\* 642\* 670\* 727\* 727\* 727\*

VAEA6 - V1161/CI6/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 INTERNAL NAME CROSS-REFERENCE LISTING VAEA6 REV 77

INTERNAL NAME	TYPE	SIZE	ADDRESS	UNIT/STATE	ISN	REFERENCED AT	ISNS
						727*	727* 874 875 876
						877*	877* 880 884 898 1148*
						1149*	1150* 1151* 1152* 1153* 1154*
						1155*	1195* 1196* 1197* 1198* 1199*
						1200*	1201* 1202* 1258* 1259* 1260*
						1261*	1262* 1263* 1264* 1298* 1299*
						1300*	1301* 1302* 1303* 1304* 1367*
						1368*	1369* 1370* 1371* 1406* 1407*
						1408*	1409* 1410* 1477* 1478* 1479*
						1480*	1481* 1482* 1483* 1517* 1518*
						1519*	1520* 1521* 1522* 1578* 1579*
						1580*	1581* 1582* 1618* 1619* 1620*
						1621*	1622* 1693* 1694* 1695* 1696*
						1697*	1698* 1736* 1737* 1738* 1739*
						1799*	1800* 1801* 1802* 1803* 1804*
						1805*	1845* 1846* 1847* 1848* 1849*
						1850*	1907* 1908* 1909* 1910* 1911*
						1912*	1948* 1949* 1950* 1951* 1952*
						1953*	2020* 2021* 2022* 2023* 2024*
						2025*	2063* 2064* 2065* 2066* 2067*
						2068*	2144* 2145* 2146* 2147* 2148*
						2149*	2150* 2185* 2186* 2187* 2188*
						2189*	2190* 2249* 2250* 2251* 2252*
						2253*	2254* 2255* 2293* 2294* 2295*
						2296*	2297* 2298* 2299* 2369* 2370*
						2371*	2372* 2373* 2374* 2375* 2376*
						2415*	2416* 2417* 2418* 2419* 2420*
						2421*	2422* 2498* 2499* 2500* 2501*
						2502*	2503* 2545* 2546* 2547* 2548*
						2612*	2613* 2614* 2615* 2616* 2617*
						2656*	2657* 2658* 2659* 2660* 2661*
						2733*	2734* 2735* 2736* 2737* 2738*
						2778*	2779* 2780* 2781* 2858* 2859*
						2860*	2861* 2862* 2863* 2864* 2865*
						2902*	2903* 2904* 2905* 2906* 2907*
						2908*	2909* 2967* 2968* 2969* 2970*
						2971*	2972* 2973* 3005* 3006* 3007*
						3008*	3009* 3010* 3011* 3074* 3075*
						3076*	3077* 3078* 3079* 3080* 3112*
						3113*	3114* 3115* 3116* 3117* 4003*
						4004*	4005* 4006* 4007* 4008* 4009*
						4010*	4041* 4042* 4043* 4044* 4045*

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

\* VAEA6 REV 77 INTERNAL NAME CROSS-REFERENCE LISTING VAEA6 REV 77

INTERNAL NAME	TYPE	SIZE	ADDRESS	UNIT/STATE	ISN	REFERENCED AT	ISNS
(EXPECTED)*	COLUMN	8	COLUMN	1	10	4046*	4047* 4048* 4376* 4378*
						566	567 582 583 595 612
						641	642 670 727* 727*
						727*	727* 877* 884 898
						1148	1149 1150 1152 1153
						1154	1155 1195 1196 1197 1198
						1199	1200 1201 1202 1258 1259
						1260	1261 1262 1263 1264 1298
						1299	1300 1301 1302 1303 1304
						1367	1368 1369 1370 1371 1406
						1407	1408 1409 1410 1477 1478
						1479	1480 1481 1482 1483 1517
						1518	1519 1520 1521 1522 1578
						1579	1580 1581 1582 1618 1619
						1620	1621 1622 1693 1694 1695
						1696	1697 1698 1736 1737 1738
						1739	1799 1800 1801 1802 1803
						1804	1805 1845 1846 1847 1848
						1849	1850 1907 1908 1909 1910
						1911	1912 1948 1949 1950 1951
						1952	1953 2020 2021 2022 2023
						2024	2025 2063 2064 2065 2066
						2067	2068 2144 2145 2146 2147
						2148	2149 2150 2185 2186 2187
						2188	2189 2190 2249 2250 2251
						2252	2253 2254 2255 2293 2294
						2295	2296 2297 2298 2299 2369
						2370	2371 2372 2373 2374 2375
						2376	2415 2416 2417 2418 2419
						2420	2421 2422 2498 2499 2500
						2501	2502 2503 2545 2546 2547
						2548	2612 2613 2614 2615 2616
						2617	2656 2657 2658 2659 2660
						2661	2733 2734 2735 2736 2737
						2777	2778 2779 2780 2781 2858
						2859	2860 2861 2862 2863 2864
						2865	2902 2903 2904 2905 2906
						2907	2908 2909 2967 2968 2969
						2970	2971 2972 2973 3005 3006
						3007	3008 3009 3010 3011 3074
						3075	3076 3077 3078 3079 3080
						3112	3113 3114 3115 3116 3117

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 INTERNAL NAME CROSS-REFERENCE LISTING VAEA6 REV 77

INTERNAL NAME	TYPE	SIZE	ADDRESS	UNIT/STATE	ISN	REFERENCED AT	ISNS
(NOPower)	COLUMN	8		COLUMN	2	10	874 4378
							4003 4004 4005 4006 4007 4008
							<del>4009 4010 4041 4042 4043 4044</del>
							4045 4046 4047 4048 4376



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6	REV	77	MACRO/SUBROUTINE CROSS-REFERENCE LISTING	VAEA6	REV	77
NEXT			SUBROUTINE/MACRO-NAME			
			TYPE	APLM	ISN	REFERENCED AT ISNS
			SUBROUTINE	REVISION	DEFINED	
				0	4106	
						112 169 171 242
						249 257 259 261
						263 351 358 361
						369 371 397 398
						479 481 493 496
						514 515 520 521
						523 533 535 537
						703 704 715 718
						888 889 891 893
						913 914 916 919
						997 999 1100 4106
						4288
CPAGE			SUBROUTINE	0	4116	112 187 192 236
						274 377 552 725
						996 1008 4116
PPKON			SUBROUTINE	0	4121	80 106 115 182
						267 268 368 505
						527 540 541 901
						902 921 988 4098
						4121
UPDATE			SUBROUTINE	0	4154	96 104 161 270
						375 507 529 543
						904 923 4154
NSWITCH			SUBROUTINE	0	4255	555 564 404 469
						485 4255
NVERT			SUBROUTINE	0	4295	186 708 713 989
						1011 4079 4295
INHOUR			SUBROUTINE	0	4329	91 188 4072 4329
INITTAB			SUBROUTINE	0	4369	116 1062 4071 4369

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

STATEMENT LABEL CROSS-REFERENCE LISTING

VAEA6	REV	77	ISN	DEFINED	REFERENCED AT	ISNS	VAEA6	REV	77
S	100		4211	4183					
S	200		4221	4212					
S	300		4251	4222					
S	500		81	83					
S	998		4090	1027	1030				
S	999		4088	549					
S	1000		179	272 545 906 926 1217 1322 1433 1535 1640 1753 1865 1972 2095 2204 2321 2438 2565 2683 2809 2924 3026 3121					
S	1005		374	376					
S	1010		1061	178 928					
S	1020		113	177 719 1004 1022 1102					
S	1030		160	162					
S	1050		528	530					
S	1060		542	544					
S	1070		550	911					
S	1090		721	568 584 596 613 628 643 656 671 685					
S	1100		913	905					
S	1120		488	323 324 329 333					
S	1130		922	924					
S	1140		269	271					
S	1145		190	511					
S	1150		325	322					
S	1160		95	97					
S	1170		103	105					
S	1180		506	508					
S	1600		929	12					
S	1610		944	13					
S	1620		959	52					
S	1630		967	53					
S	1640		972	55					
S	1645		975	971					
S	1650		981	54					
S	1660		1005	63					
S	1665		1025	57					
S	1668		1028	58					
S	1670		1031	59					
S	1680		1039	60					
S	1690		1047	61					
S	1700		1054	62					
S	2010		1103	14					
S	2015		1106	1063					
S	2020		1218	15					

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 STATEMENT LABEL CROSS-REFERENCE LISTING VAEA6 REV 77

LABEL	DEFINED	REFERENCED AT ISNS
S 2025	1221	1064
S 2030	1323	16
S 2035	1326	1065
S 2040	1434	17
S 2045	1437	1066
S 2050	1536	18
S 2055	1539	1067
S 2060	1641	19
S 2065	1644	1068
S 2070	1754	20
S 2075	1757	1069
S 2080	1866	21
S 2085	1869	1070
S 2090	1973	22
S 2095	1976	1071
S 2100	2096	23
S 2105	2099	1072
S 2110	2205	24
S 2115	2208	1073
S 2120	2322	25
S 2125	2325	1074
S 2130	2439	26
S 2135	2442	1075
S 2140	2566	27
S 2145	2569	1076
S 2150	2684	28
S 2155	2687	1077
S 2160	2810	29
S 2165	2813	1078
S 2170	2925	30
S 2175	2928	1079
S 2180	3027	31
S 2185	3030	1080
S 2190	3122	32
S 2195	3125	1081
S 2200	3164	33
S 2205	3167	1082
S 2210	3242	34
S 2215	3245	1083
S 2220	3287	35
S 2225	3290	1084
S 2230	3329	36

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

STATEMENT LABEL CROSS-REFERENCE LISTING

VAEA6	REV	77	STATEMENT LABEL	CROSS-REFERENCE LISTING	VAEA6	REV	77
			ISN	REFERENCED AT ISNS			
			LABEL	DEFINED			
			S 2235	3332	1085		
			S 2240	3387	37		
			S 2245	3390	1086		
			S 2250	3431	38		
			S 2255	3434	1087		
			S 2260	3467	39		
			S 2265	3470	1088		
			S 2270	3497	40		
			S 2275	3500	1089		
			S 2280	3539	41		
			S 2285	3542	1090		
			S 2290	3586	42		
			S 2295	3589	1091		
			S 2300	3658	43		
			S 2305	3661	1092		
			S 2310	3707	44		
			S 2315	3710	1093		
			S 2320	3767	45		
			S 2325	3770	1094		
			S 2330	3825	46		
			S 2335	3828	1095		
			S 2340	3871	47		
			S 2345	3874	1096		
			S 2350	3922	48		
			S 2355	3925	1097		
			S 2360	3932	49		
			S 2365	3955	1098		
			S 2370	3970	50		
			S 2375	3973	1099		
			S 8000	4099	4101		
			S 9999	4065	51 56 64		

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

FUNCTION DESIGNATOR CROSS-REFERENCE LISTING

VAEA6	REV	77	VAEA6	REV	77										
DATA			REV/												
FB NAME	RANK	TYPE	STYP	LEN	BLEN	SRC	BTUC	UNIT/STATE	WCNT	WNUM	USER	ODIS	ADDR	REFERENCED AT	ISNS
<C>	SYDB	CONS						SYSTEM SYSTEM	70183	1029	4089				
<E>	SYDB	CONS						SYSTEM SYSTEM	70183	1026					
<CNLS-PP>	SYDB	CPP						SYSTEM SYSTEM	20021						
									231*	254*	256*	354*	363*	400*	
									470*	471*	483*	498*	500*	502*	
									504*	517*	525*	707*	712*	717*	
									724*	886*	896*	897*	898*	899*	
									918*	935*	940*	950*	955*	965*	
									970*	974*	983*	1001*	1033*	1041*	
									1049*	1056*	4067*	4292*			
<GHT>	SYDB	TIME	GMT					SYSTEM SYSTEM	20021						
									231	354	363	400	483	517	
									525	707	712	724	886		
									918	935	940	950	955	965	
									970	974	983	1001	4067	4292	
<LEB>	SYDB	LED						SYSTEM SYSTEM	20021						
									67*	183*	961*	984*	4068*	4093*	
									4103*	4128*					
<LEB2>	SYDB	LED						SYSTEM SYSTEM	20021						
									67*	977*	984*	4068*	4093*	4133*	
<LEB3>	SYDB	LED						SYSTEM SYSTEM	20021						
									67*	4093*					
<LEB4>	SYDB	LED						SYSTEM SYSTEM	20021						
									67*	157*	4093*	4138*			
<LEB5>	SYDB	LED						SYSTEM SYSTEM	20021						
									67*	977*	984*	4068*	4093*	4143*	
<LEB6>	SYDB	LED						SYSTEM SYSTEM	20021						
									67*	4083*	4093*	4148*			
<PAGE-A>	SYDB	PAGE						SYSTEM SYSTEM	20021						
									66*	75*	76*	77*	79*	84*	
									85*	86*	87*	88*	99*	100*	
									101*	102*	108*	109*	110*	111*	
									191*	254*	256*	470*	471*	498*	
									499*	500*	501*	502*	503*	504*	
									723*	893*	897*	898*	899*	1033*	
									1041*	1049*	1056*	4092*	4097*	4102*	
<PAGE-B>	SYDB	PAGE						SYSTEM SYSTEM	20021						
									66*	89*	170*	172*	244*	245*	
									246*	247*	250*	258*	260*	262*	
									264*	353*	360*	362*	370*	372*	
									399*	480*	482*	495*	497*	516*	
									522*	524*	534*	536*	538*	706*	
									711*	716*	890*	892*	894*	915*	
									917*	934*	938*	949*	953*	998*	
									1000*	1006*	1007*	1013*	1014*	1016*	
									1017*	1101*	4081*	4092*	4093*	4102*	
									4112*	4113*	4118*	4159*	4160*	4161*	
									4162*	4163*	4164*	4185*	4186*	4187*	
									4188*	4189*	4190*	4191*	4192*	4193*	
									4194*	4195*	4196*	4197*	4198*	4199*	
									4200*	4201*	4213*	4214*	4215*	4216*	
									4217*	4218*	4224*	4225*	4227*	4229*	

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 FUNCTION DESIGNATOR CROSS-REFERENCE LISTING

FD NAME	BANK	DATA	TYPE	STYP	LEN	BLEN	SRC	RTUT	BTUC	UNIT/STATE	WCNT	WNUM	USER	ODIS	ADDR	REV/	REFERENCED AT ISMS		
<PFK11-PB>	SYDB	PFK											SYSTEM	SYSTEM	20021	63	93	107	4230* 4231* 4232* 4233* 4234* 4235*
<PFK15-PB>	SYDB	PFK											SYSTEM	SYSTEM	20021	64	93	114	4236* 4237* 4238* 4239* 4240* 4241* 4289*
<PFK1-PA>	SYDB	PFK											SYSTEM	SYSTEM	20021	57	1034	1042	4290* 4291* 4321* 4322* 4323* 4324*
<PFK2-PA>	SYDB	PFK											SYSTEM	SYSTEM	20021	58	1035	1043	
<PFK3-PA>	SYDB	PFK											SYSTEM	SYSTEM	20021	59	1036	1044	
<PFK4-PA>	SYDB	PFK											SYSTEM	SYSTEM	20021	60	1037	1045	
<PFK5-PA>	SYDB	PFK											SYSTEM	SYSTEM	20021	61	90	98	1050 1057
<PFK6-PA>	SYDB	PFK											SYSTEM	SYSTEM	20021	62	90	98	1051 1058
<PFK1>	SYDB	PFK											SYSTEM	SYSTEM	20021	52	90	185	962 986 4070
<PFK1-L1>	SYDB	PFPL											SYSTEM	SYSTEM	20021	4126			
<PFK1-L2>	SYDB	PFPL											SYSTEM	SYSTEM	20021	68*	184*	960*	964* 985* 4069* 4094*
<PFK2>	SYDB	PFK											SYSTEM	SYSTEM	20021	53	90	976	986 4070 4131
<PFK2-L1>	SYDB	PFPL											SYSTEM	SYSTEM	20021	68*	968*	979*	985* 4069* 4094*
<PFK2-L2>	SYDB	PFPL											SYSTEM	SYSTEM	20021	68*	979*	985*	4069* 4094* 4132*
<PFK3-L1>	SYDB	PFPL											SYSTEM	SYSTEM	20021	68*	4094*		
<PFK3-L2>	SYDB	PFPL											SYSTEM	SYSTEM	20021	68*	4094*		
<PFK4>	SYDB	PFK											SYSTEM	SYSTEM	20021	54	90	159	4136
<PFK4-L1>	SYDB	PFPL											SYSTEM	SYSTEM	20021	68*	158*	982*	1002* 4094*
<PFK4-L2>	SYDB	PFPL											SYSTEM	SYSTEM	20021	68*	158*	4094*	4137*
<PFK5>	SYDB	PFK											SYSTEM	SYSTEM	20021	55	90	976	986 4070 4141
<PFK5-L1>	SYDB	PFPL											SYSTEM	SYSTEM	20021	68*	973*	979*	985* 4069* 4094*
<PFK5-L2>	SYDB	PFPL											SYSTEM	SYSTEM	20021	68*	979*	985*	4069* 4094* 4142*
<PFK6>	SYDB	PFK											SYSTEM	SYSTEM	20021	56	90	4082	4146
<PFK6-L1>	SYDB	PFPL											SYSTEM	SYSTEM	20021	68*	985*	4066*	4084* 4094*
<PFK6-L2>	SYDB	PFPL											SYSTEM	SYSTEM	20021	68*	4084*	4094*	4147*
<SGPCAREAT>	SYDB	SSA1	PCM					ON/OFF					SYSTEM	SYSTEM	30010	4164			
<SGPCAREA2>	SYDB	SSA1	PCM					ON/OFF					SYSTEM	SYSTEM	30010	4164			
<SGPCAREA3>	SYDB	SSA1	PCM					ON/OFF					SYSTEM	SYSTEM	30010	4164			
<SGPCFIDA1>	SYDB	SSA2	DEC										SYSTEM	SYSTEM	30010	4164			
<SGPCFIDA2>	SYDB	SSA2	DEC										SYSTEM	SYSTEM	30010	4164			
<SGPCFIDA3>	SYDB	SSA2	DEC										SYSTEM	SYSTEM	30010	4164			
<SOIADATAV>	SYDB	SSA2	SCT					ON/OFF					SYSTEM	SYSTEM	30010	4164			
<SOIFID>	SYDB	SSA2	DEC										SYSTEM	SYSTEM	30010	4164			
<SPA-PRNTR>	SYDB	PRTR											SYSTEM	SYSTEM	20021	231*	254*	256*	354* 363* 400*
																470*	471*	483*	498* 500* 502*
																504*	517*	525*	707* 712* 717*



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

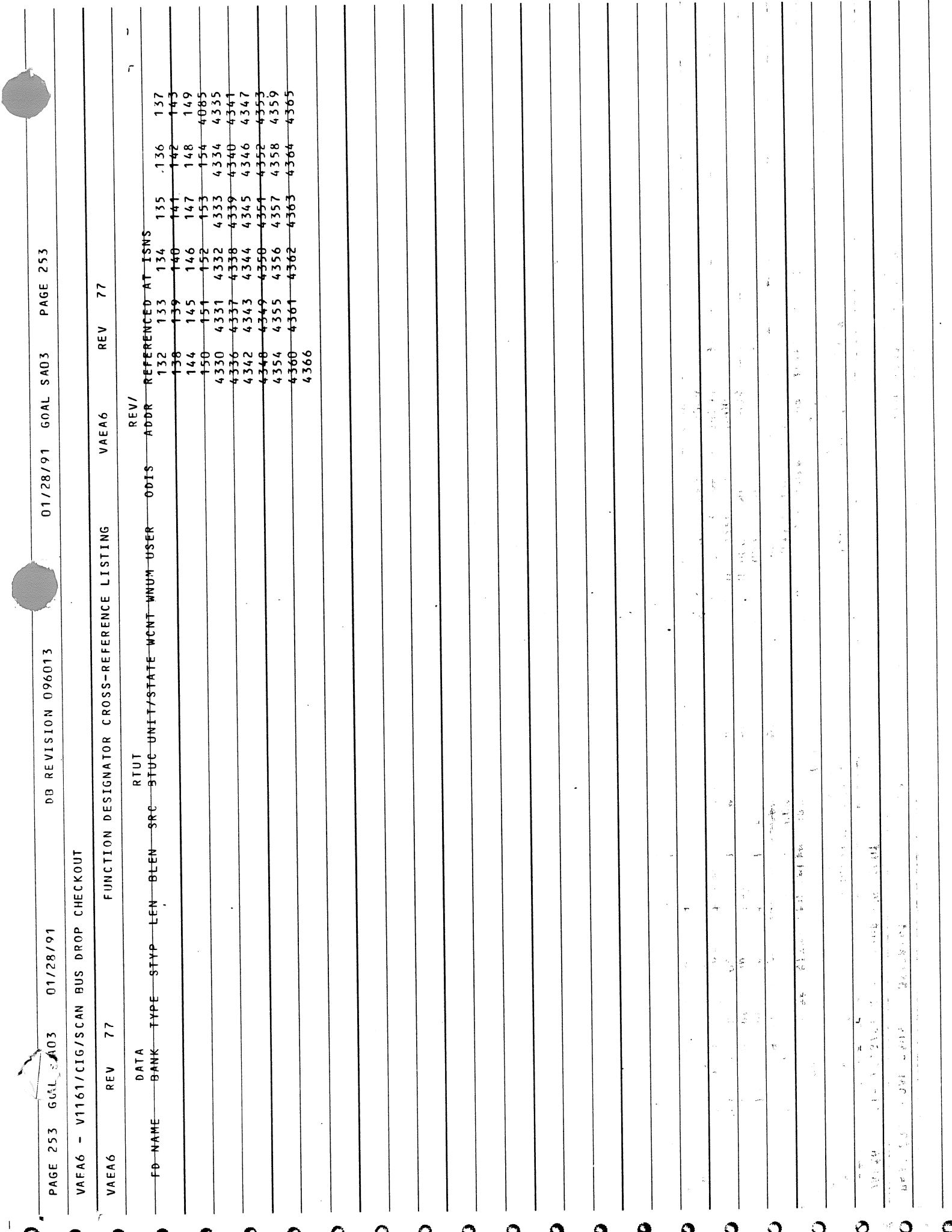
FUNCTION DESIGNATOR CROSS-REFERENCE LISTING										VAEA6	REV	77								
DATA										VAEA6	REV	77								
FD-NAME	BANK	TYPE	STYP	LEN	BLEN	SRC	RTUT	BTUC	UNIT/STATE	WCNT	WNUM	USER	ODIS	ADDR	REFERENCED AT	ISNS				
<V76X4116E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4117E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4119E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4120E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4122E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4123E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4125E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4126E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4130E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4131E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4133E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4134E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4136E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4137E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4140E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4142E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4143E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4145E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4146E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4151E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4152E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4155E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4156E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4158E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	9	30008	9					
<V76X4159E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	10	30008	10					
<V76X4171E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	10	30008	10	727				
<V76X4172E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	10	30008	10	727				
<V76X4173E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	10	30008	10	727				
<V76X4174E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	10	30008	10	727				
<V76X4175E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	10	30008	10	727				
<V76X4176E1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	MPS	30008	10	30008	10	727				
<V99X4120X1>	SYDB	DM	RD	1	1	PCM	ON/OFF	0	0	0092KC	DPS	30008	10	30008	10	727				
<XMIT-PB>	SYDB	DGKY																		
													SYSTEM SYSTEM	20021	14	15	16	17	18	19
														20	21	22	23	24	25	
														26	27	28	29	30	31	
														32	33	34	35	36	37	
														38	39	40	41	42	43	
														44	45	46	47	48	49	
														50	51	92	117	118	119	
														120	121	122	123	124	125	
														126	127	128	129	130	131	



VAF6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAF6 REV 77 FUNCTION DESIGNATOR CROSS-REFERENCE LISTING VAE6 REV 77

FD NAME	DATA BANK	TYPE	STYP	LEN	BLEN	SRC	RTUT	STUC	UNIT	STATE	WCNT	WNUM	USER	ODIS	ADDR	REFERENCED AT ISMS		
																132	133	134
																132	133	134
																138	139	140
																144	145	146
																150	151	152
																4330	4331	4332
																4336	4337	4338
																4342	4343	4344
																4348	4349	4350
																4354	4355	4356
																4360	4361	4362
																4366		



VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 EXTERNAL REFERENCE CROSS-REFERENCE LISTING VAEA6 REV 77

EXTERNAL REFERENCE	GOAL	TYPE	REFERENCED AT ISNS
(VAE02)			78 6096
(VDE52)		DISPLAY SKELETON	89 1007

VAEA6 - V1161/CIG/SCAN BUS DROP CHECKOUT

VAEA6 REV 77 GOAL LANGUAGE PROCESSOR DIAGNOSTIC SUMMARY VAEA6 REV 77

TOTAL NUMBER OF SOURCE RECORDS - 9936

TOTAL NUMBER OF STATEMENTS - 4302

TOTAL NUMBER OF WARNINGS - 0

TOTAL NUMBER OF ERRORS - 0

DYNAMIC STORAGE AREA SIZE - 40840

GOAL LANGUAGE PROCESSOR RELEASE LEVEL - SA03

CCMS DATA BANK REVISION - 096013

SAUMB # 9895V, ACTIVITY # F-4, REROBI CODE # 52, RECORD COUNT

18

GOAL APLM LIBRARY WRAPUP REPORT

GWRAP-19A

COMPILER=SA03 DATABANK=096013

000000001646 000000000007 000000000001 652125210600 000707202020 027107144663 000000000010 000001064423

VAEA60077

STATUS= 0 - 000000000000

TOTAL FILES THIS REGION= 428

TOTAL APLM FILES= 15380

AREA=

1

REGION(SUFFIX)- 000000000010

PAGE= 934 ENTRY=

7 NOW AT PHASE 2

SUCCESSFUL CONFIG OBJ ON LIR.



From: T048/1 --LSOC1  
To: T07321 --LSOC1

Date and time 06/10/93 11:25:20

From: Eric Mickelson  
EMICKELS  
407-867-6683  
Subject: VAEA6 code review

Yo Dude, Code review for VAEA6 scheduled for Wed 6/16 9:00 am  
If you have any trubs with this schedule give me a call.

Eric

Eric  
Mail Stop: LS0-284

# Part 1: MEETING NOTICE

Meeting Type :  Inspection  
 Re-inspection

Inspection ID : 0217MPS

ID : LCA-3272

Inspection Package Contents :  
REV TO REV COMPARES

Inspection Type :  Design  
 Code  
 Overview

## ROLE ASSIGNMENTS :

Moderator : F LOUCEL Phone : 1 6683

Author : E FRICKER

Reader : KEN HOLLIS

Recorder : T DEL HAGEN

Inspector : M BALDINI

Inspector : \_\_\_\_\_

Inspector : \_\_\_\_\_

**The Inspection Meeting has been scheduled for:**

Date : ~~04-27-93~~ <sup>06-15-93</sup> Location : CX D

Time : ~~10:45~~ 9:00

Expected Preparation Time : \_\_\_\_\_

Additional Comments :

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Part 2: MEETING SUMMARY/REPORT

Disposition :  Accept  Re-Inspect  Conditional

Inspection Duration : \_\_\_\_\_ Number of Inspectors : \_\_\_\_\_

Actual Size of Materials : \_\_\_\_\_ Total Preparation Time : \_\_\_\_\_

Rework to be completed by : \_\_\_\_\_ Estimated Rework Effort : \_\_\_\_\_

Re-Inspection Scheduled for : \_\_\_\_\_ Actual Rework Effort : \_\_\_\_\_

Moderator Certification : \_\_\_\_\_ Completion Date : \_\_\_\_\_

Additional Comments :

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



SPC 185

1-8-93



1. REPORT NUMBER

INTERIM PROBLEM REPORT

PROBLEM REPORT PNL-236330

DISCREPANCY REPORT

PAGE 1 OF 1

2. DETECTED DURING VII 61 STS-55 3. WORK AREA FR-1 4. END ITEM CONTROL NUMBER LCA-3272

5. WORK UNIT CODE 28FCHA 0000 6. PART/PROG NAME GOAL 7. PART/PROG NO. VAEA6 8. SER./REV NO. 77 9. QTY 1 ea

10. FSCM/VENDOR 57378/LSOC 11. NHA/PN/TAPE/DISC ID. SA055A/A 12. STS #/EFF. 055-X-SM 13. REPORTED BY (NAME/ORG) Ken Hollis 17-52 14. DATE 1/8/93

15. SOFTWARE PROBLEM LOCATOR

DUMP  TRANSLATOR OUTPUT  LINE PRINTER OUTPUT  COMPILER LISTING  OTHER (SPECIFY)

16. ITEM 17. PROBLEM DESCRIPTION 17-52 17A. VALIDATION DATE ~~1/16/93~~ TIME ~~11:16~~ 1/16/93 0841

Samara Z. Dalhage **SPC 185** LSOC-PRE 1-8-93

- 1) VAEA6 RAFT Does Not Correctly Test PNL R2 mps PRPLT Dump Sequence LO2 or PNL R2 mps PRPLT Dump Backup LIT VLV
- 2) VAEA6 RAFT Does NOT position PNL R2 Pneumatics He Isol to close when Terminating Program
- 3) VAEA6 RAFT should also have PNL R2 Pneumatics Tool Alone IFT test is "CUB/SCAMP test"

18. CRIT. SKILLS  YES  NO ITEMS: 19. ENG. CHANGE REQ.  YES  NO ITEMS: 20. CONSTRAINTS:  YES  NO TO: NFLT 21. CRIT 3 22. RESP ORG. LSOC-LPS

23. WEIGHT RECD  YES  NO ITEMS: 24. RETEST REQD  YES  NO ITEMS: 25. HAZARDOUS OP  YES  NO ITEMS: 26. MR REQD  YES  NO ITEMS: 27. TIME/CYCLE  YES  NO ITEMS: 28. FRACTURE CRIT  YES  NO ITEMS:

29. ITEM 30. DISPOSITION/CAUSE/CORRECTIVE ACTION CONSTRAINT SIGNATURES 31. TECH CONTR QA GOVT QA

SYSTEM ENGINEERS ARE AWARE OF THESE PROBLEMS AND CAN PERFORM MANUAL OPERATIONS TO WORK AROUND THE PROBLEMS.

**SPC 185**  
1/8-93

**SPC 185**  
**1/11/93**

RESTORED (NATURE) DATE 33. FINAL ACCEP DATE

34. D. 37. R. 36. RELATED REPORTS

GNATURE DATE) (DATE)

PRESS FIRMLY - ALL COPIES MUST BE LEGIBLE



2. DETECTED DURING

VII61, STS-55

3. RESERVED

4. END ITEM CONTROL NO.

5. ITEM

6. TECH

7. CONTR  
QA

8. GOVT  
QA

INTERIM SUMMARY

PROGRAM VAEAG, REV 77

① DID NOT CORRECTLY TEST PNL R2  
MPS PROPELLANT PUMP SEQUENCE  
LH2 OR PNL R2 MPS PROPELLANT  
DUMP BACKUP LH2 VALVE

② IT ALSO DID NOT POSITION  
PNL R2 PNEUMATICS HELIUM  
ISOLATION VALVE TO CLOSED WHEN  
TERMINATING

③ LASTLY IT DIDN'T LEAVE PNL  
R2 PNEUMATICS ISOLATION VALVE  
ALONE IF TEST IS "CIG/SCAN  
RETST".

9. CLOSURE

PRESS FIRMLY - ALL COPIES MUST BE LEGIBLE

130c130 ENC  
131a132,147  
OLD Rev 77  
: CHRISTOPHER GARIERY / LSOC MPS SW / 7-6683

NEW Rev 81  
ENGINEER : CHRISTOPHER GARIERY / LSOC MPS SW / 1-6683

// dya 54f / lsoe / facilities / ejf / mps  
/ vac a 6-81

MODIFIED : 01-18-93  
REFERENCE : LCA-3272  
ACTION : CORRECT PNL R2 MPS PRPLT DUMP SEQUENCE, CLOSE PNEU  
HELIUM ISOLATION VALVE ON TERMINATION, AND LEAVE  
PNL R2 PNEU ISOLATION VALVE ALONE IF TEST IS  
"CIG/SCAN REINST"  
REVISION : ~~20~~ <sup>STET</sup>  
ENGINEER : ERIC FRICKER / LSOC MPS SW / 1-6683  
MODIFIED : 01-27-93  
REFERENCE : LCA-3272  
ACTION : CHECK IF TEST IS CIG OR SCAN BEFORE SETTING HELIUM  
ISOLATION VALVES ON, ALSO WAIT FOR PFPKON  
REVISION : 81  
ENGINEER : ERIC FRICKER / LSOC MPS SW / 1-6683

```
604c620  
53AB3 <V72K0081XL> MPS PRPLT DUMP SEQUENCE START A  
2714a2731,2732  
2717,2722c2735,2739  
IF (TEST) IS NOT EQUAL TO 6 OR  
(TEST) IS NOT EQUAL TO 10 OR  
(TEST) IS NOT EQUAL TO 13 OR  
(TEST) IS NOT EQUAL TO 21 OR  
(TEST) IS NOT EQUAL TO 29 OR  
(TEST) IS NOT EQUAL TO 36,  
2780a2798,2799  
3011c3030  
S IF SWITCH IS 29 OR 30 THEN IT IS START INSTEAD OF OPEN AND  
3568,3569c3587,3590  
<V41K1163XL>  
<V41K1256XL>  
3774a3796  
3776,3777c3798,3800  
<V41K1257XL>  
<V41K1362XL>  
4019,4020c4041  
BEGIN SEQUENCE;  
4027a4045,4050  
4041a4065,4066  
4051,4052c4075  
END SEQUENCE;  
4500c4523  
IF (PRESS) IS LESS THAN 25 PSIA THEN  
4506c4529 HIGH LIMIT TO 25 PSIA LOW LIMIT TO LO;  
4526c4549 HIGH LIMIT TO HI LOW LIMIT TO 25 PSIA;  
4546c4569 IF (PRESS) IS LESS THAN 25 PSIA THEN  
4552c4575 HIGH LIMIT TO 25 PSIA LOW LIMIT TO LO;  
4572c4595 HIGH LIMIT TO HI LOW LIMIT TO 25 PSIA;  
8940a8964,8990  
<V72K0081XL> MPS PROPELLANT (PRPLT) DUMP SEQUENCE START A  
53AB3  
ACTIVATE (SWITCH);  
IF (TEST) IS NOT EQUAL TO 4 AND  
(TEST) IS NOT EQUAL TO 6 AND  
(TEST) IS NOT EQUAL TO 10 AND  
(TEST) IS NOT EQUAL TO 12 AND  
(TEST) IS NOT EQUAL TO 37,  
ASSIGN (SWITCH) ROW 51 (EXPECTED) = (SWITCH) ROW 51 (ACTUAL);  
ASSIGN (SWITCH) ROW 52 (EXPECTED) = (SWITCH) ROW 52 (ACTUAL);  
$ IF SWITCH IS 27 OR 28 THEN IT IS START INSTEAD OF OPEN AND  
<V41K1163XL> TO ON;  
IF (TEST IS CIG OR SCAN) = 1 THEN  
SET <V41K1256XL>  
IF (TEST IS CIG OR SCAN) = 1 THEN  
<V41K1257XL> TO ON;  
SET <V41K1362XL>  
<V41K1645E1>  
<V41K1646E1>  
(VALVE1) ROW 50 (EXPECTED),  
(VALVE1) ROW 51 (EXPECTED),  
IF (PRESS) IS LESS THAN 33 PSIA THEN  
HIGH LIMIT TO 33 PSIA LOW LIMIT TO LO;  
HIGH LIMIT TO HI LOW LIMIT TO 33 PSIA;  
IF (PRESS) IS LESS THAN 33 PSIA THEN  
HIGH LIMIT TO 33 PSIA LOW LIMIT TO LO;  
HIGH LIMIT TO HI LOW LIMIT TO 33 PSIA;  
PERFORM SUBROUTINE (NEXT) (NEXTLINE);  
RECORD TEXT (IF ALL EPDC CONTROL BUSES ARE NOT UP,)  
TO <PAGE-B> LINE (NEXTLINE) COLUMN 32 YELLOW;  
PERFORM SUBROUTINE (NEXT) (NEXTLINE);  
RECORD TEXT (PLEASE VERIFY ALL HELIUM  
TO <PAGE-B> LINE (NEXTLINE) COLUMN 32 YELLOW;
```

```

PERFORM SUBROUTINE (NEXT) (NEXTLINE);
RECORD TEXT (ISOLATION VALVE SWITCHES ARE CLOSED.)
  TO <PAGE-B> LINE (NEXTLINE) COLUMN 32 YELLOW;
RECORD TEXT (IF ALL EPDC CONTROL BUSES ARE NOT UP.);
  NEXT TEXT (PLEASE VERIFY ALL HELIUM ISOLATION VALVE SWITCHES),
  TEXT ( ARE CLOSED.) TO <CNLSL-PP> <SPA-FRMT>;
PERFORM SUBROUTINE (PPKON) 1;
STEP 9998 CONTINUE;
PERFORM SUBROUTINE (UPDATE);
IF (ICGO) = 0 THEN GOTO STEP 9998;
ASSIGN (SWITCH) ROW 52 (EXPECTED) = ON;
IF (PRESS1) IS LESS THAN 33 PSIA THEN
IF (PRESS2) IS LESS THAN 33 PSIA THEN

```

8946a8997

9367c9418

9381c9432

```

IF (PRESS1) IS LESS THAN 25 PSIA THEN
IF (PRESS2) IS LESS THAN 25 PSIA THEN

```

**VAEAB MPS BUS REDUNDANCY CHECKOUT VDES2**

**CONTROL BUS CHECKOUT**

AB1  
 AB1/AB2/AB3  
 AB2/AB3  
 AB3  
 BC1  
 BC1/BC2/BC3  
 BC2/BC3  
 BC3  
 CA1  
 CA1/CA2/CA3  
 CA2/CA3  
 CA3  
 BC1/AB1/CA1

BC2/CA1  
 AB3/AB1  
 BC3/AB1  
 CA3/AB1  
 BC1/AB3/BC1  
 AB3/BC1/AB1  
 BC3/CA1/CA1  
 BC1/BC3/CA1  
 CA1/CA3/AB1  
 AB3/BC1  
 AB3/BC1

INITIAL SET UP

AB1 ABC2 ABC3  
 BC1 BC2 BC3  
 CA1 CA2 CA3

TERMINATE

MPS REG OUT

MPS ACCUM

035 12/28 SB057A1  
 SM SA 0123 0123 E123 1A 2AB 3AB 4AB 5AB 6AB VAEAS  
 SPRTLIB VO  
 33/28 ATRM95 REQUESTED PROGRAM PUT INTO ITS TERMINAL SEQUENCE

035 12/28 SB057A1  
 SM SA 0123 0123 E123 1A 2AB 3AB 4AB 5AB 6AB VAEAS

035 12/28 SB057A1

CONTROL BUS CHECKOUT

1	AB1	BC2/CA1	<input type="checkbox"/>
2	AB1/AB2	AB3/AB1	<input type="checkbox"/>
3	AB1/AB2/AB3	CA2/AB1	<input type="checkbox"/>
4	AB2	BC3/BC1	<input type="checkbox"/>
5	AB2/AB3	AB2/BC1	<input type="checkbox"/>
6	AB3	CA3/AB1	<input type="checkbox"/>
7	BC1	AB3/AB3	<input type="checkbox"/>
8	BC1/BC2	AB2/AB3/BC1	<input type="checkbox"/>
9	BC1/BC2/BC3	AB3/BC1/AB1	<input type="checkbox"/>
10	BC2	BC3/CA1	<input type="checkbox"/>
11	BC2/BC3	BC2/BC3/CA1	<input type="checkbox"/>
12	BC3	BC1/BC3/CA1	<input type="checkbox"/>
13	CA1	CA1/CA3/AB1	<input type="checkbox"/>
14	CA1/CA2	AB1/CA2/CA3	<input type="checkbox"/>
15	CA1/CA2/CA3	AB3/BC2	<input type="checkbox"/>
16	CA2	AB3/CA1	<input type="checkbox"/>
17	CA2/CA3		
18	CA3		
19	CA3/CA1		
20	BC1/AB1/CA1		

INITIAL SET UP  
 01129/42/12/ HDA↑  
 TERMINATE

MPS REG OUT 768.0 PSIA      MPS ACCUM      780.0 PSIA

POSITION TO OPEN  
 PNL R2 HE ISO A CENTER  
 PNL R2 HE ISO B CENTER  
 PNL R2 HE ISO A LEFT  
 PNL R2 HE ISO B LEFT  
 PNL R2 HE ISO B RIGHT  
  
 POSITION TO IN OPEN  
 PNL R2 HE INTERCONNECT CENTER  
 PNL R2 HE INTERCONNECT LEFT  
 PNL R2 HE INTERCONNECT RIGHT  
  
 POSITION TO OPEN  
 PNL R4 LO2 PREVALVE RIGHT  
  
 WAIT 3 SECONDS AFTER SWITCH CHANGES,  
 THEN PRESS CONTINUE - PFPK1

OPEN  
 LO2 MAIN  
 PRESS

WHERE MPS BUS RECOMMENDATION CHECKOUT VOICES

**CRT 2**  
POWER ON (1551) H/L FUNC (1561)  
OFF (1551) PL (1561)

**RIGHT CRT SEL**  
3 (1581) 2 (1582)

**TIMER SET**  
RESET A (1532)

FAULT SUMM	SYS SUMM	MSG RESET	ACK
GPC/CRT	A	B	C
I/O RESET	D	E	F
ITEM	1	2	3
EXEC	4	5	6
OPS	7	8	9
SPEC	-	0	+
RESUME	CLEAR	.	PRO

1.359732923 1.359732931

**ANNEL**  
3 (1581) 4 (1582)

**BODY FLAP UP**  
DOWN (1510) AUTO/OFF (1510)

**PITCH TRIM DOWN**  
UP (1518)

**ROLL TRIM**  
L (1518) R (1518)

1.311732221

**ET SEPARATION**  
SEP (1531) MAN (1541)

**YAW TRIM**  
FIRE (1531) AUTO (1531)

**S-BAND PH**  
ANTENNA UL AFT (1510) UR FWD (1510) LR AFT (1510) LL AFT (1510) LR FWD (1510) LL FWD (1510) GPC (1510)

1.359732341

**UPL INR MSP BLOCK**  
1537

**MASTER MAINT POWER**  
ON (1541)

**CAUTION/WARNING MODE**  
MEMORY (1561) READ (1571) ACK (1571)

**ENABLE PAYLOAD SAFING**  
OFF (1521) 2 (1531) 3 (1541) 4 (1551) 5 (1561)

**EMERGENCY LIGHTING**  
ON/OFF (1515) OFF/OFF (1515)

1.359732351

**R6**  
RIGHT COMH  
POWER ON (1531) OFF (1531)

**MPS**  
PRPLT DUMP BACKUP (1531) (1532)  
SEQUENCE START (1531) LH2 VLV OPEN (1532)  
STOP (1531) CLOSE (1532)

**ENGINE POWER**  
LEFT CTR AC2 (1531) RIGHT CTR AC3 (1531)  
LEFT AC3 (1531) CTR AC2 ON (1531) RIGHT AC1 (1531)

**He ISOLATION A**  
LEFT CTR OPEN (1531) RIGHT (1531)

**He ISOLATION B**  
LEFT CTR OPEN (1531) RIGHT (1531)

**APU/HYD READY TO START**  
APU OPERATE (1531) (1532) (1533)  
START/RUN (1531) (1532) (1533)

**INJECTOR COOL**  
APU SPEED SELECT (1531) (1532) (1533)  
NORM (1531) HIGH (1532)

**PNEUMATICS**  
L ENG Hw XOVW OPEN (1531) LH2 UR LAGE PRESS AUTO (1531) (1532) (1533)

**He INTERCONNECT**  
LEFT IN OPEN (1531) RIGHT (1531)

**HYD MAIN PUMP PRESS**  
1 (1531) 2 (1532) 3 (1533)  
NORM (1531) LOW (1532)

**APU FUL TK VLV ENA**  
1 (1531) 2 (1532) 3 (1533)

**HYD CIRC PUMP**  
1 (1531) 2 (1532) 3 (1533)

**APU FUEL TR VLV**  
1 (1531) 2 (1532) 3 (1533)

**APU AUTO SHUT DOWN**  
1 (1531) 2 (1532) 3 (1533)  
ENABLE (1531) OFF (1532) (1533)

**APU CNTLR PWR**  
1 (1531) 2 (1532) 3 (1533)

**BOILER CNTLR/HTR**  
1 (1541) 2 (1542) 3 (1543)

**ET UMBILICAL DOOR**  
CENTERLINE LATCH (1570) (1571) (1572)  
DOOR LEFT LATCH (1561) (1562) (1563)  
DOOR RIGHT LATCH (1561) (1562) (1563)

**BOILER PWR**  
1 (1531) 2 (1532) 3 (1533)

**BOILER N2 SUPPLY**  
1 (1541) 2 (1542) 3 (1543)

1.32973221

**CONTROL BUS PWR**  
MN A RESET (1531) MN B/C ON (1531)  
MN B RESET (1532) MN C/A ON (1532)  
MN C RESET (1533) MN A/B ON (1533)

**CABIN PL**  
MN A (1531) MN B (1532) MN C (1533)

**30V64TP152**  
C (1531) L (1532) U (1533) D (1534) P (1535) S (1536) E (1537)

**LEM O2 1**

**LEM O2 3**

**30V64TP154**

**LEH O2 SUPPLY**  
TP1 (1531) OPEN (1532) TP2 (1533) OPEN (1534)

**C7**  
CLOSED (1531) (1532) (1533) (1534)

C2345678911234567821234567893123456789412345678951234567896123456789712

```
CHARACTER*60 LINE(60,3),FD(150),TEMP,TEMP2,TEMP3
CHARACTER*80 FNAME,LINEP,LINEP2
CHARACTER*37 NSW(30)
CHARACTER*30 AFORM
CHARACTER*12 SWIT(30),SWH
CHARACTER*17 POS(9)
CHARACTER*5 PROC(3)
CHARACTER*4 VOLT
CHARACTER*3 TM,BDROP(4),SDROP(3),BLIST(9)
CHARACTER*2 TN
INTEGER ELIST(9),EHOLD(9),ESAVE(9),SLIST(30)
DATA BLIST/'AB1','AB2','AB3','BC1','BC2','BC3','CA1','CA2','CA3'/
DATA ELIST/120,121,122,220,221,222,320,321,322/,EHOLD/9*0/,
*ESAVE/9*0/,SLIST/30*0/
DATA POS/'OPEN','CLOSE','GPC','IN OPEN',
*'OUT OPEN','GND','AUTO','START','STOP'/
DATA NSW/'PNL R2 HE ISO A CENTER','PNL R2 HE ISO B CENTER',
*'PNL R2 HE ISO A LEFT','PNL R2 HE ISO B LEFT',
*'PNL R2 HE ISO A RIGHT','PNL R2 HE ISO B RIGHT',
*'PNL R2 HE INTERCONNECT CENTER',
*'PNL R2 HE INTERCONNECT LEFT',
*'PNL R2 HE INTERCONNECT RIGHT',
*'PNL R4 LO2 PREVALVE CENTER',
*'PNL R4 LH2 PREVALVE CENTER',
*'PNL R4 LH2 PROPELLANT FILL/DRAIN INBD',
*'PNL R4 LO2 PREVALVE LEFT','PNL R4 LH2 PREVALVE LEFT',
*'PNL R4 LO2 PROPELLANT FILL/DRAIN INBD',
*'PNL R4 LH2 PROPELLANT FILL/DRAIN OTBD',
*'PNL R4 LH2 MANIFOLD PRESS','PNL R4 LO2 PREVALVE RIGHT',
*'PNL R4 LH2 PREVALVE RIGHT',
*'PNL R4 LO2 FEEDLINE RLF ISOL',
*'PNL R4 LH2 FEEDLINE RLF ISOL',
*'PNL R4 LO2 MANIFOLD PRESS',
*'PNL R4 LO2 PROPELLANT FILL/DRAIN OTBD',
*'PNL R4 GH2 PRESS LINE VENT','PNL R2 LH2 ULLAGE PRESS',
*'PNL R2 PNEUMATICS HE ISOL',
*'PNL R2 MPS PRPLT DUMP SEQUENCE LO2',
*'PNL R2 MPS PRPLT DUMP SEQUENCE LO2',
*'PNL R2 MPS PRPLT DUMP BACKUP LH2 VLV',
*'PNL R2 MPS PRPLT DUMP BACKUP LH2 VLV'/
FNAME='switch'
IFD=1
ILINE=1
DO 80 J=1,26
  SLIST(J)=0
80 CONTINUE
OPEN(UNIT=20,FILE=FNAME,STATUS='READONLY',ERR=110)
GOTO 120
110 CONTINUE
WRITE(*,*) 'Error...could not open ',FNAME
STOP
120 CONTINUE
READ(20,100,END=150) (LINE(ILINE,I),I=1,3)
ILINE=ILINE+1
100 FORMAT(A60)
GOTO 120
150 CONTINUE
CLOSE(UNIT=20)
FNAME='fd.test2'
OPEN(UNIT=20,FILE=FNAME,STATUS='READONLY',ERR=110)
FNAME='fd.test'
OPEN(UNIT=21,FILE=FNAME,STATUS='READONLY',ERR=110)
DO 30 I=1,9
  ESAVE(I6)=0
30 CONTINUE
IFD=IFD-1
ILINE=ILINE-1
I=-1
DO 10 I3=0,36
  WRITE(*,*) ' '
  WRITE(*,*) ' Table ',I+1
  IGGO=0
  VOLT=' 0.U'
```



```

IF (I3.GT.0) THEN
READ (20,FMT=' (4A3)' ) (BDROP (I4),I4=1,4)
DO 200 I6=1,9
  DO 210 I4=1,4
  IF (BLIST(I6).EQ.BDROP (I4)) THEN
    WRITE (*,*) ' Drop Bus ',BLIST(I6)
    ESAVE (I6)=1
    IGGO=1
  ENDIF
210 CONTINUE
200 CONTINUE
ENDIF
IF (IGGO.EQ.1) WRITE (*,*) ' '
I=I+1
DO 15 J=1,3
LICPOS=100
WRITE (*,*) ' Part ',J
IGGO=0
I2=I+14
DO 20 K=1,ILINE
I9=K/2.0+0.75
IFLAG=0
TEMP=LINE (K,J)
IF (TEMP (I2:I2).EQ.'N') TEMP (I2:I2)='+'
IF (TEMP (I2:I2).EQ.'M') TEMP (I2:I2)='- '
IPOS=-1
IF (K/2.NE.(K+0.0)/2.0) IPOS=1
IF (IPOS.EQ.1) THEN
  TEMP2=LINE (K+1,J)
  IF (TEMP2 (I2:I2).EQ.'N') TEMP2 (I2:I2)='+'
  IF (TEMP2 (I2:I2).EQ.'M') TEMP2 (I2:I2)='- '
  IF (TEMP (I2:I2).EQ.'-' .AND. TEMP2 (I2:I2).EQ.'-' ) IFLAG=2
ENDIF
IF (TEMP (I2:I2).EQ.'+' ) IFLAG=1
IF (J.EQ.1.AND.SLIST (I9).NE.0.AND.TEMP (I2:I2).EQ.' ' ) IFLAG=2
IF (J.GT.1.AND.IFLAG.EQ.0.AND.TEMP (I2:I2).NE.'-' ) THEN
DO 60 L=1,J
TEMP2=LINE (K,L)
IF (TEMP2 (I2:I2).EQ.'+' ) IFLAG=1
IF (TEMP2 (I2:I2).EQ.'-' ) IFLAG=0
60 CONTINUE
ENDIF
IF (IFLAG.EQ.0) GOTO 20
SWH=SWIT (I9)
IF (IFLAG.EQ.2) IPOS=0
193 CONTINUE
  IF (SLIST (I9).EQ.IPOS) GOTO 192
  ICPOS = 0
  IF (IPOS.EQ.0) ICPOS = 3
  IF (IPOS.EQ.-1) ICPOS = 2
  IF (IPOS.EQ.1) ICPOS = 1
C IF SWITCH IS 7, 8 OR 9 THEN IT IS IN OPEN/OUT CLOSED INSTEAD OF OPEN, AND
C IN CLOSED/OUT OPEN INSTEAD OF CLOSED TO BE OUTPUT TO OPERATOR.
  IF (I9.EQ.7.OR.I9.EQ.8.OR.I9.EQ.9) THEN
    IF (ICPOS.EQ.1.OR.ICPOS.EQ.2) ICPOS = ICPOS + 3
  ENDIF
C IF SWITCH IS 27, 28, 29 OR 30 THEN IT IS START INSTEAD OF OPEN, AND
C STOP INSTEAD OF CLOSED TO BE OUTPUT TO OPERATOR.
  IF (I9.EQ.27.OR.I9.EQ.28.OR.I9.EQ.29.OR.I9.EQ.30) THEN
    IF (ICPOS.EQ.1.OR.ICPOS.EQ.2) ICPOS = ICPOS + 7
  ENDIF
C IF SWITCH IS 12,15,16,23,OR 24 THEN IT IS GND INSTEAD OF GPC.
C IF SWITCH IS 25, THEN IT SHOULD BE AUTO INSTEAD OF GPC.
  IF (I9.EQ.12.OR.I9.EQ.15.OR.I9.EQ.16.OR.
*I9.EQ.23.OR.I9.EQ.24.OR.I9.EQ.25) THEN
    IF (ICPOS.EQ.3) THEN
      ICPOS = ICPOS + 3
      IF (I9.EQ.25) ICPOS = ICPOS + 1
    ENDIF
  ENDIF
  IF (LICPOS.NE.ICPOS) THEN
    LICPOS = ICPOS
    WRITE (*,*)
    WRITE (*,*) ' POSITION TO ',POS (ICPOS)

```

```

        ENDIF
        WRITE(*,*)'          ',NSW(I9)
SLIST(I9)=IPOS
IGGO=1
192 CONTINUE
20 CONTINUE
IF (IGGO.EQ.1) WRITE(*,*) ' '
CONTINUE
DO 201 I6=1,9
  DO 211 I4=1,4
    IF (BLIST(I6).EQ.BDROP(I4)) THEN
      WRITE(*,*)'    Bring back up Bus ',BLIST(I6)
      ESAVE(I6)=0
    ENDIF
211 CONTINUE
201 CONTINUE
10 CONTINUE
DO 70 J=1,9
  IF (ESAVE(J).EQ.1) THEN
    VOLT='28.U'
    WRITE(*,*)'          Bring Back Up Bus ',BLIST(J)
    ESAVE(J)=0
  ENDIF
70 CONTINUE
CLOSE(UNIT=20)
CLOSE(UNIT=21)
END

```

AB1  
AB1AB2  
AB1AB2AB3  
AB2  
AB2AB3  
AB3  
BC2  
BC2BC3  
BC2  
BC2BC3  
BC3  
CA1  
CA1CA2  
CA1CA2CA3  
CA2  
CA2CA3  
CA3  
CA3CA1  
BC1AB1CA1  
BC2CA1  
AB3AB1  
CA2AB1  
BC3BC1  
AB2BC1  
CA3AB1  
BC1AB3  
AB2AB3BC1  
AB3BC1AB1CA1  
BC3CA1  
BC2BC3CA1  
BC1BC3CA1AB1  
CA1CA3AB1BC1  
AB1CA2CA3  
AB3BC2  
AB3CA1

FD Test 2

# **Lockheed Space Operations Company**

## TITLE

### V1161/CIG/SCAN/BUS DROP CHECKOUT VERIFICATION

REV-CHANGE	DATE	REMARKS
BASIC	:	: PRE-STS 34R VERIFICATION (AS RUN)
A	: 09-12-89	: STS 33R VERIFICATION ESR K49569
B	: 01-26-93	: PR LCA - 3272

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Section I

1.1 Referenced Instructions

N/A

1.2 Computer Programs

Number	Title
VAEA6	MPS Bus Redundancy Test
VAE18	MPS HE C/O and Bottle Fill
SAE12	MPS LH2 Propellant Monitor

1.3 Equipment Required

CCMS  
CDS  
TCID  
Math Model "A"  
Links  
GSE4  
OI  
GPC  
SPA  
Console C3  
Console C4

1.4 Special Instructions

N/A

Section II

Pre-operation Setup instructions

01-000 Pre-operation Setup 1 - Preps

01-001 Verify consoles are up and ready to support

01-002 Verify Math Model is up and ready to support

01-003 Verify all equipment in Section I, 1.3 is up and ready to support.

*Verify all mps components are in a known state & Block in Present 12*

02-000 Pre-operation Setup 2 - System Initialization

NOTE

IGNORE ALL CLASS 3 ERRORS  
IN THE NEXT STEP.

02-001 CMPS Console Kybd (C3)

*- expect errors will occur*

1. VAEA6  
Perf Pgm Key - Press

Verify PAGE-A CYAN:

HE REG OUT AND ACCUM NOW ON EMON PAGE AND UNDER CONTINUOUS PROGRAM MONITORING

INHIBIT BUS REDUNDANCY EMONS OPTION SELECTED FOR VAE92

TO INHIBIT EMONS ON FUNCTION DESIGNATORS WITH C3 RSYN ENTER "VAE91,,3" ON THE COMMAND LINE AT CONSOLE C3 AND PRESS <PERF PGM>.

WHEN COMPLETE PRESS CONTINUE - PFPK1

PFPK1 - CONTINUE - Press

Verify PAGE-A YELLOW, Printer Plotter:

PLEASE INDICATE WHICH TEST YOU ARE RUNNING:

PFK1: RSYN TRANSFER OF V41K1535XL AND V41K1537XL TO C4

PFK2: RSYN TRANSFER OF V41K1535XL AND V41K1537XL TO C3

PFK3: BUS REDUNDANCY TEST

PFK4: ELECTRICAL CONNECTOR RETEST

Verify PAGE-B Skeleton VDE52

02-002 CMPS Console Kybd (C3)  
VAEA6

PFK1 Key - Press

TO ACTIVATE EMONS ON FUNCTION DESIGNATORS WITH C3 RSYS ENTER  
"VAE91,,1" ON THE COMMAND LINE AT CONSOLE C3 AND PRESS <PERF PGM>.

WHEN COMPLETE PRESS CONTINUE - PFPK1

PFPK1 - CONTINUE - Press

02-003 CMPS Console Kybd (C4)

1. VAEA6  
Perf Pgm Key - Press

Verify PAGE-A CYAN:

HE REG OUT AND ACCUM NOW ON EMON PAGE AND UNDER CONTINUOUS PROGRAM  
MONITORING

INHIBIT BUS REDUNDANCY EMONS OPTION SELECTED FOR VAE92

TO INHIBIT EMONS ON FUNCTION DESIGNATORS WITH C3 RSYS ENTER  
"VAE91,,3" ON THE COMMAND LINE AT CONSOLE C3 AND PRESS <PERF PGM>.

WHEN COMPLETE PRESS CONTINUE - PFPK1

PFPK1 - CONTINUE - Press

Verify PAGE-A YELLOW, Printer Plotter:

PLEASE INDICATE WHICH TEST YOU ARE RUNNING:  
PFK1: RSYS TRANSFER OF V41K1535XL AND V41K1537XL TO C4  
PFK2: RSYS TRANSFER OF V41K1535XL AND V41K1537XL TO C3  
PFK3: BUS REDUNDANCY TEST  
PFK4: ELECTRICAL CONNECTOR RETEST

Verify PAGE-B Skeleton VDE52

02-004 CMPS Console Kybd (C4)  
VAEA6

PFK3 Key - Press

Verify PAGE-A YELLOW, SPA, Printer Plotter:

PFK3: BUS REDUNDANCY TEST CHOSEN

PLEASE INDICATE WHETHER OR NOT THE HE ISO'S ARE MATED:  
PFK5: ANY OF THE MPS AND SSME HELIUM SOL ARE MATED  
PFK6: ALL OF THE MPS AND SSME HELIUM SOL ARE DEMATED

02-005 CMPS Console Kybd (C4)  
VAEA6

PFK6 Key - Press

Verify PAGE-A YELLOW, SPA, Printer Plotter:

PFK6: ALL OF THE HELIUM ISO'S ARE DEMATED CHOSEN

Verify PAGE-A Cleared Page, then PAGE-A YELLOW:

SEE PAGE B FOR DISPLAY

Change pages to VAEA6, PAGE-B

02-006 CMPS

Console Kybd (C4)  
VAEA6

1.PFPK Panel - VAEA6 - Press

Verify PFPK1 - CONTINUE	PFPK1-L2 Illuminated
PFPK2 -	
PFPK3 -	
PFPK4 -	
PFPK5 -	
PFPK6 - TERMINATE	PFPK6-L2 Illuminated

02-007 CMPS

1.Console KYBD  
S\_FD\_V41P1605A1

Verify GOAL limits of Lo LOW, High 24 PSI  
Verify GOAL Notification is active

Obtain Hard Copy.

2.Console KYBD  
S\_FD\_V41P1650A1

Verify GOAL limits of Lo LOW, High 24 PSI  
Verify EMON limits of Lo LOW, High 24 PSI  
Verify GOAL notification active.  
Verify EMON notification active.

Obtain Hard Copy.

3. CONSOLE KYBD  
S\_FD\_V41K1535XL

VERIFY RSYS HAS TRANSFERRED FROM C3 TO C4

4. CONSOLE KYBD  
S\_FD\_V41K1537XL

VERIFY RSYS HAS TRANSFERRED FROM C3 TO C4

02-008 CMPS

Console Kybd (C4)



SAE12  
Perf Pgm Key - Press

02-009 CMPS CRT (C4)  
SAE12  
Verify ET power on

Note

If ET power is not on, perform the following step

02-010 CMPS PFP (C4)  
SAE12 - Press  
TURN ON ET PWR (Press Once)

Note

Determine Math Model System Name From TCS,  
prior to next step (AXKA, AXKB, AXKC, Etc...)

02-011 CMPS Math Model

Console Kybd

- 1.CDS ENABLE Key - Press  
HOME Key - Press  
ERASE PAGE SHIFT Key - Press  
XXXX(A, B, C or D) SIGNON Key - Press (Ex. CXKR)  
Verify "A" Math Model
- 2.PAGE BREAK Key - Press  
F V99X4120X1 ON;  
CDS XMIT Key - Press
- 3.PAGE BREAK Key - Press  
F QMPVEHONMLP OFF;  
CDS XMIT Key - Press
- 4.PAGE BREAK Key - Press  
F QMPVEHINOPF ON;  
CDS XMIT Key - Press
- 5.PAGE BREAK Key - Press  
F V41X1468E1 OFF;  
CDS XMIT Key - Press

02-012 CMPS Console Kybd (C4)

VAE24  
PERF PGM Key - Press  
Follow Prompts for Power Up

Verify Successful OPF GSE power up.

Section III Ops Support Setup

N/A

Section IV Operation Instructions

03-000 Bus Redundancy Test Confidence Run

03-001 CMPS Math Model

P VPE43 37.U;  
CDS XMIT Key - Press  
S QMPPROCSTEP ON;  
CDS XMIT Key - Press

03-002 CMPS Cursor Control (C4)  
VAEA6

Initial Setup

03-003 CMPS CRT (C4)  
VAEA6

Verify PFPK4 LED - ABORT CURR TEST  
PFPK4-L2 Illuminated

03-004 CMPS Math Model  
S QMPPROCSTEP ON;  
CDS XMIT Key - Press

03-005 CMPS Console Kybd - (C4)  
VAEA6

PFPK1 - CONTINUE - Press  
Verify PFPK-L1 Illuminated  
Verify CONTINUE clears  
VERIFY PFPK-L2 and PFPK-L1 Extinguished

03-006 CMPS CRT (C4)  
VAEA6

Verify TEST COMPLETE - NO ERRORS  
INITIAL SET UP

Note: Repeat The Following Step 3 Times

03-007 CMPS Math Model  
S QMPPROCSTEP ON;  
CDS XMIT Key - Press

Note:  
Run Each Of The Following Math Model Procedures

For The Following Cursored Test Steps 03-008 Thru 03-013.

Bus Drop Tests 1 Thru 36

Math Model Procedure > Test To Cursor Control

```
----->-----  
P VPE41 1.U; > AB1  
----->-----  
P VPE41 2.U; > AB1AB2  
----->-----  
P VPE41 3.U; > AB1AB2AB3  
----->-----  
P VPE41 4.U; > AB2  
----->-----  
P VPE41 5.U; > AB2AB3  
----->-----  
P VPE41 6.U; > AB3 *See Note 03-014 Below  
----->-----  
P VPE41 7.U; > BC1  
----->-----  
P VPE41 8.U; > BC1BC2  
----->-----  
P VPE41 9.U; > BC1BC2BC3  
----->-----  
P VPE41 10.U; > BC2  
----->-----  
P VPE42 11.U; > BC2BC3  
----->-----  
P VPE42 12.U; > BC3 *See Note 03-014 Below  
----->-----  
P VPE42 13.U; > CA1  
----->-----  
P VPE42 14.U; > CA1CA2  
----->-----  
P VPE42 15.U; > CA1CA2CA3  
----->-----  
P VPE42 16.U; > CA2  
----->-----  
P VPE42 17.U; > CA2CA3  
----->-----  
P VPE42 18.U; > CA3  
----->-----  
P VPE42 19.U; > CA3CA1  
----->-----  
P VPE42 20.U; > BC1AB1CA1  
----->-----  
P VPE43 21.U; > BC2CA1  
----->-----  
P VPE43 22.U; > AB3AB1  
----->-----  
P VPE43 23.U; > CA2AB1  
----->-----  
P VPE43 24.U; > BC3BC1
```

```
----->-----  
P VPE43 25.U; > AB2BC1  
----->-----  
P VPE43 26.U; > CA3AB1  
----->-----  
P VPE43 27.U; > BC1AB3  
----->-----  
P VPE43 28.U; > AB2AB3BC1  
----->-----  
P VPE43 29.U; > AB3BC1AB1 CA1 **  
----->-----  
P VPE43 30.U; > BC3CA1  
----->-----  
P VPE43 31.U; > BC2BC3CA1  
----->-----  
P VPE43 32.U; > BC1BC3CA1 AB1 **  
----->-----  
P VPE43 33.U; > CA1CA3AB1 BC1 **  
----->-----  
P VPE43 34.U; > AB1CA2CA3  
----->-----  
P VPE43 35.U; > AB3BC2  
----->-----  
P VPE43 36.U; > AB3CA1  
----->-----
```

\*\* Busses not on skeleton, but will drop anyway because of EPDC characteristics.  
03-008 CMPS Math Model

```
P VPE4x xx.U;  
CDS XMIT Key - Press  
S QMPPROCSTEP ON;  
CDS XMIT Key - Press
```

03-009 CMPS CRT (C4)  
VAEA6  
Cursor Applicable Test

Note:  
Perform Steps 03-010 Thru Step 03-013  
Until TEST COMPLETE - NO ERRORS is Displayed.  
Do Not Perform Step 03-011 If Switches Are  
All In The Correct Position.

03-010 CMPS Math Model

```
S QMPPROCSTEP ON;  
CDS XMIT Key - Press
```

03-011 CMPS Console Kybd - (VAEA6)  
PFPK1 - CONTINUE - Press  
Verify PFPK-L1 Illuminated  
Verify CONTINUE clears  
VERIFY PFPK-L2 and PFPK-L1 Extinguished

03-012 CMPS Math Model  
S QMPPROCSTEP ON;  
CDS XMIT Key - Press

03-013 CMPS CRT (C4)  
VAEA6  
  
Verify PAGE-B  
TEST COMPLETE - NO ERRORS  
<test name>

03-014 CMPS Math Model  
  
S QMPPROCSTEP ON;  
CDS XMIT Key - Press

\*Note:  
Perform The Following Steps After Completion Of These Tests  
To Bring MPS Pneumatics Back To Ambient

03-015 CMPS Cursor Control (C4)  
VAE18  
  
1) MPS HE Blowdown VLV1 - OPEN  
2) MPS HE Blowdown VLV2 - OPEN  
3) Vent MPS Pneumatic System To Ambient  
4) MPS HE Blowdown VLV1 - Close  
5) MPS HE Blowdown VLV2 - Close

03-016 CMPS Obtain ESA Data Retrieval For ANALYZE COMPUTER TO COMPUTER  
Trace. ( ANA C-TO-C ) The Following Options Are To Be Used:  
  
1. C4 TO LDB(A OR B)  
  
2. LDB(A OR B) TO C4  
  
Review For Correct Command Issuance.

04-000 Bus Redundancy Test - Error Verification

NOTE:

If program VAEA6 is active and PFK-3 and PFK-6 have been chosen, NOT PERF. the next step.

04-001 CMPS CONSOLE KYBD (C4)  
VAEA6  
PERF PGM Key - Press

PFK-3 Key - Press  
PFK-6 Key - Press

NOT PERF.: \_\_\_\_\_

04-002 CMPS Math Model

F V76V0120A1 0.U;  
F V76V0121A1 0.U;  
F V76V0122A1 0.U;  
F V76V0220A1 0.U;  
F V76V0221A1 0.U;  
F V76V0222A1 0.U;  
F V76V0320A1 0.U;  
F V76V0321A1 0.U;  
F V76V0322A1 0.U;

04-003 CMPS Cursor Control (C4)  
VAEA6  
AB1

04-004 CMPS CRT (C4)  
PAGE-B, VAEA6

1) Verify the Following Error Message:

ERROR IN EPDC BUS SCAN. PLEASE SEE  
PAGE-A FOR ERRORS THEN PRESS PFPK2  
OR PFPK5 TO CONTINUE.

2) Verify AB1 is inverted CYAN

04-005 CMPS CRT (C4)  
VAEA6 PAGE-A

Verify All Control Busses Show Zero Voltage Except AB1

04-006 CMPS Math Model

F V76V0121A1 28.U;  
F V76V0122A1 28.U;

F V76V0220A1 28.U;  
F V76V0221A1 28.U;  
F V76V0222A1 28.U;  
F V76V0320A1 28.U;  
F V76V0321A1 28.U;  
F V76V0322A1 28.U;

04-007 CMPS Console Kybd (C4)  
VAEA6  
PFPK-2 - Press

04-008 CMPS CRT (C4)  
VAEA6  
Verify All Busses are Powered Except AB1, and No  
EPDC Bus Scan Errors. Verify the Following  
Is Output To The CRT PAGE-B.

POSITION TO OPEN  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN/OUT CLOSE  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER  
PNL R4 LH2 PROPELLANT FILL/DRAIN LH2 INBD  
PNL R4 LO2 PREVALVE RIGHT

04-009 CMPS Cursor Control (C4)  
VAEA6

- 1) All Other Tests except TERMINATE.  
Verify Unable To Support Cursor Control  
Of Any Other Tests.
- 2) Verify Only PFPK-1, PFPK-4 and PFPK-6 LED's  
Are Illuminated.

04-010 CMPS Math Model

F V76V0120A1 28.U;

04-011 CMPS Console Kybd (C4)  
VAEA6

PFPK-4 - Press

Verify The Following Message Is Output To The  
CRT PAGE-B in RED:

ABORTING CURRENT TEST

Verify The Following Message Is Output To The  
CRT PAGE-B in YELLOW:

RETURNING TO MONITOR LOOP

04-012 CMPS

Math Model

PAGE BREAK KEY - Press  
APPLY 1.U TO <QS11R4LO2PV1>;  
CDS XMIT Key - Press  
PAGE BREAK KEY - Press  
APPLY -1.U TO <QS06R4LO2PV9>;  
CDS XMIT Key - Press

04-013 CMPS

Console KYBD (C4)

PFPK-6 - Press

Verify The Following Message Is Output  
To PAGE-B In Yellow:

ABORTING CURRENT TEST  
RETURNING TO MONITOR LOOP  
IF ALL EPDC CONTROL BUSSES ARE NOT UP,  
PLEASE VERIFY ALL HELIUM  
ISOLATION VALVE SWITCHES ARE CLOSED.

PFPK-1 - Press

Verify The Following Message Is Output  
To PAGE-B In Green:

POSITION TO CLOSE  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO GPC  
PNL R4 LO2 PREVALVE CENTER

POSITION TO GND  
PNL R4 LO2 PROPELLANT FILL/DRAIN OTBD



POSITION TO CLOSE  
PNL R2 PNEUMATICS HE ISOL

Verify the Following On The PFP Panel:

PFPK1 LED = CONTINUE  
PFPK4 LED = ABORT CURR TEST  
PFPK6 LED = <clear>  
PFPK6 L1 Illuminated  
PFPK6 L2 Illuminated

04-014 CMPS

Math Model

PAGE BREAK KEY - Press  
APPLY 0.U TO <QS11R4LO2PV1>;  
CDS XMIT Key - Press  
PAGE BREAK KEY - Press  
APPLY 0.U TO <QS06R4LO2PV9>;  
CDS XMIT Key - Press

04-015 CMPS

Console KYBD (C4)

PFPK-1 - Press

04-016 CMPS

CRT (C4)  
VAEA6

Verify Error Messages PAGE-B YELLOW:  
SWITCH IN INCORRECT POSITION, SB:  
CLOSE  
PNL R2 HE ISO A CENTER  
SWITCH IN INCORRECT POSITION, SB:  
CLOSE  
PNL R2 HE ISO B CENTER  
SWITCH IN INCORRECT POSITION, SB:  
CLOSE  
PNL R2 HE ISO A LEFT  
SWITCH IN INCORRECT POSITION, SB:  
CLOSE  
PNL R2 HE ISO B LEFT  
SWITCH IN INCORRECT POSITION, SB:  
CLOSE  
PNL R2 HE ISO A RIGHT  
SWITCH IN INCORRECT POSITION, SB:  
CLOSE  
PNL R2 HE ISO B RIGHT  
SWITCH IN INCORRECT POSITION, SB:  
CLOSE  
PNL R2 PNEUMATICS HE ISOL  
ERROR IN SWITCH SCAN. PLEASE CHOOSE  
PFPK2 OR PFPK5

04-017 CMPS

Console KYBD (C4)

VAEA6

PFPK5 - Press

See <PAGE-A>

Verify All LED's and PFPK's lights clear less PFPK1

Verify Messages PAGE-A :

TO ACTIVATE EMONS ON FUNCTION DESIGNATORS WITH C3 RSYS ENTER  
"VAE91,,1" ON THE COMMAND LINE AT CONSOLE C3 AND PRESS <PERF PGM>.

WHEN COMPLETE PRESS CONTINUE - PFPK1

PFPK1 - CONTINUE - Press

Verify Program Terminates and Page-A and Page-B clear.

04-018 CMPS Console KYBD  
VAEA6  
PERF PGM KEY - Press

PFK-3 Press  
PFK-5 Press

04-019 CMPS Console Kybd (C4)

VAE18  
Perf Pgm Key - Press

PFK3 Key - Press (Vehicle In OPF)  
SET NLHK0072X ON  
SET NLHK0073X ON

04-020 CMPS Cursor Control (C4)  
VAE18

MPS HE REG ISO VLV1 - OPEN  
MPS HE REG ISO VLV2 - OPEN

04-021 CMPS CRT (C4)  
VAE18

Verify MPS REG OUT And ACCUM Pressures  
Are 750 PSIA +/- 35 PSI.

04-022 CMPS CRT (C4)  
VAEA6

Verify MPS REG OUT And ACCUM Pressures Are  
Displayed In RED and Read 750 PSIA +/- 35 PSI.

04-023 CMPS CRT (C4)  
EMON

Verify an EMON For V41P1650A1 Is Displayed.

04-024 CMPS

Cursor Control (C4)  
VAE18

- 1) MPS HE ISO VLV1 - CLOSE
- 2) MPS HE ISO VLV2 - CLOSE
- 3) MPS HE Blowdown VLV1 - OPEN
- 4) MPS HE Blowdown VLV2 - OPEN
- 5) Vent MPS Pneumatic System To Ambient
- 6) MPS HE Blowdown VLV 2 - Close

04-025 CMPS

Math Model

PAGE BREAK KEY - Press  
F V41P1605A1 28.U;  
CDS XMIT Key - Press  
PAGE BREAK KEY - Press  
F V41P1650A1 28.U;  
CDS XMIT Key - Press

04-026 CMPS

CRT (C4)  
VAEA6

Verify MPS REG OUT and ACCUM Pressures  
Read 28 +/- 3 PSIA RED.

04-027 CMPS

Math Model

PAGE BREAK KEY - Press  
R F V41P1605A1;  
CDS XMIT Key - Press  
PAGE BREAK KEY - Press  
R F V41P1650A1;  
CDS XMIT Key - Press

04-028 CMPS

CRT (C4)  
VAEA6

Verify MPS REG OUT and ACCUM Pressures  
Read Ambient in GREEN.  
Clear EMON Page.

04-029 CMPS

Console KYBD

SET NLHK0074X ON  
XMIT CMD Key - Press  
EXEC CMD Key - Press

04-030 CMPS

Cursor Control (C4)  
VAE18

- 1) BLOWDOWN VLV1 OPEN

- 2) BLOWDOWN VLV2 OPEN
- 3) XOVER VLV OPEN
- 4) PFPK-7 Press
- 5) VAE18 - Press
- 6) PFPK2 - Press (Clear C&W/CLMSG)
- 7) Verify SSME E-2 Pneumatics REG A OUT and  
REG B OUT Pressures Read Below 600 PSIA.
- 8) XOVER VLV CLOSE
- 9) Verify MPS Reg Out, Accum Are At Ambient.
- 10) BLOWDOWN VLV1 CLOSED
- 11) BLOWDOWN VLV2 CLOSED

04-031 CMPS Math Model

F V76V0120A1 0.U;  
APPLY 0.U TO <OMPCTLAB1V>;

04-032 CMPS Cursor Control (C4)  
VAEA6

AB1  
XMIT CURSOR KEY - Press

04-033 CMPS CRT (C4)  
VAEA6

- 1) Verify AT LEAST E-2 (L) AND E-3 (R) He Switches Are Output  
in RED On PAGE-B
- 2) Verify The Following Message Is Displayed  
In YELLOW On PAGE-B:

SEE WARNING ABOUT SWITCHES ON PAGE-A. THEN PRESS  
PFPK-1 TO CONTINUE.

04-034 CMPS CRT (C4)  
VAEA6

Verify The Following Message Is Displayed  
On PAGE-A RED:

WARNING: CHANGING  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
TO THE OPEN POSITION IS A HAZARDOUS ACTIVITY DUE TO THE POSSIBILITY OF A  
HELIUM REGULATOR OR RELIEF VALVE FAILURE CAUSING HELIUM LEAKAGE IN THE  
AFT FUSELAGE. PLEASE CLEAR THE AFT.

Verify The Following Message Is Displayed  
On PAGE-A YELLOW:

NOTE:  
IF ALL THE ABOVE ARE DEMATED, THEN THIS WARNING DOES NOT APPLY

CAUTION:

PRIOR TO PRESSURIZATION OF THE SSME HELIUM SYSTEM, VERIFY THE SSME HYDRAULIC SYSTEM IS CONNECTED TO THE ORBITER HYDRAULIC SYSTEM OR TO OTHER EQUIPMENT THAT WILL RELIEVE ANY BUILD UP OF HYDRAULIC PRESSURE IN THE ENGINE VALVE ACTUATORS IF ENGINES ARE INSTALLED.

04-035 CMPS Console KYBD (C4)  
VAEA6

PFPK-1 - Press  
Verify PAGE-A Clears.

04-036 CMPS CRT (C4)  
VAEA6

Verify PAGE-B All Switches Re-Displayed In Green.

POSITION TO OPEN  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN/OUT CLOSE  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER  
PNL R4 LH2 PROPELLANT FILL/DRAIN INBD  
PNL R4 LO2 PREVALVE RIGHT

04-037 CMPS MATH MODEL

- 1) PAGE BREAK KEY - Press  
APPLY 1.U TO <QS12R2HEISBC>;  
CDS XMIT KEY - Press
- 2) PAGE BREAK KEY - Press  
APPLY 1.U TO <QS56R2HEISAL>;  
CDS XMIT KEY - Press
- 3) PAGE BREAK KEY - Press  
APPLY 1.U TO <QS13R2HEISBL>;  
CDS XMIT KEY - Press
- 4) PAGE BREAK KEY - Press  
APPLY 1.U TO <QS57R2HEISAR>;  
CDS XMIT KEY - Press
- 5) PAGE BREAK KEY - Press

- APPLY 1.U TO <QS14R2HEISBR>;  
CDS XMIT KEY - Press
- 6) PAGE BREAK KEY - Press  
APPLY 1.U TO <QS09R2HEINTC>;  
CDS XMIT KEY - Press
- 7) PAGE BREAK KEY - Press  
APPLY 1.U TO <QS10R2HEINTL>;  
CDS XMIT KEY - Press
- 8) PAGE BREAK KEY - Press  
APPLY 1.U TO <QS11R2HEINTR>;  
CDS XMIT KEY - Press
- 9) PAGE BREAK KEY - Press  
APPLY 1.U TO <QS11R4L02PV1>;  
CDS XMIT KEY - Press
- 10) PAGE BREAK KEY - Press  
APPLY 1.U TO <QS13R4L02PV3>;  
CDS XMIT KEY - Press
- 11) PAGE BREAK KEY - Press  
APPLY 1.U TO <QS14R4LH2PV4>;  
CDS XMIT KEY - Press

04-038 CMPS Console KYBD (C4)  
VAEA6

PFPK-1 - Press

04-039 CMPS CRT (C4)  
VAEA6

Verify The Following Message Is  
Displayed To PAGE-B In YELLOW:

SWITCH IN INCORRECT POSITION, SB:  
OPEN  
PNL R4 LH2 PROPELLANT FILL/DRAIN INBD  
ERROR IN SWITCH SCAN. PLEASE CHOOSE  
PFPK2 OR PFPK5

04-040 CMPS MATH MODEL

- 1) PAGE BREAK KEY - Press  
APPLY 1.U TO <QS07R4LH2P12>;  
CDS XMIT KEY - Press

04-041 CMPS Console KYBD (C4)  
VAEA6

PFPK-2 - Press

04-042 CMPS CRT (C4)  
VAEA6

Verify The Following Message Is  
Displayed To PAGE-B In GREEN:

SWITCHES ALL CORRECT. PRESS CONTINUE

04-043 CMPS

MATH MODEL

1) PAGE BREAK KEY - Press  
APPLY 0.U TO <QS07R4LH2P12>;  
CDS XMIT KEY - Press

04-044 CMPS

Console Kybd (C4)

SET V41K0050NL ON  
XMIT CMD Key - Press  
Execute CMD Key - Press

SET V41K0052NL ON  
XMIT CMD Key - Press  
Execute CMD Key - Press

SET V41K0053NL ON  
XMIT CMD Key - Press  
Execute CMD Key - Press

SET V41K0054NL ON  
XMIT CMD Key - Press  
Execute CMD Key - Press

04-045 CMPS

CRT (C4)  
SAE12

PFPK-2 - TURN ON ET POWER - Press  
PFPK-2 - TURN ON ET POWER - Press

Verify ET power on

04-046 CMPS

Console KYBD (C4)  
VAEA6

PFPK-1 - Press

04-047 CMPS

CRT (C4)  
VAEA6

Verify The Following Error Message  
Is Output To PAGE-B YELLOW:

SWITCH IN INCORRECT POSITION, SB:  
OPEN  
PNL R4 LH2 PROPELLANT FILL/DRAIN INBD  
ERROR IN SWITCH SCAN. PLEASE CHOOSE  
PFPK2 OR PFPK5

04-048 CMPS Console KYBD (C4)  
VAEA6

PFPK-5 - Press

04-049 CMPS CRT (C4)  
VAEA6

1)Verify The Test Continues and Prints  
Out The Following Error In YELLOW On PAGE-B:

VALVE CONFIGURATION ERRORS. REF PAGE-A

2)On PAGE-A, Console Printer Plotter, SPA  
Printer Verify The Following Error Messages:

VAEA6 - FD	FD DESCRIPTOR	CURRENT STATE
<V41X1458E1>	MPS-LH2 TOPPING VLV OPEN PWR ON	OFF

04-050 CMPS Math Model

PAGE BREAK KEY - Press  
APPLY 1.U TO <QS07R4LH2P12>;  
CDS XMIT KEY - Press

04-051 CMPS Console KYBD (C4)  
VAEA6

PFPK-2 - Press

04-052 CMPS CRT (C4)  
VAEA6  
PAGE-B

Verify The Following Message Is Displayed  
In GREEN:

SWITCHES ALL CORRECT. PRESS CONTINUE

04-053 CMPS Math Model

1)PAGE BREAK KEY - Press  
F V41S1255E1 ON;  
CDS XMIT KEY - Press  
2)PAGE BREAK KEY - Press  
F V41S1265E1 ON;  
CDS XMIT KEY - Press

04-054 CMPS CONSOLE KYBD (C4)  
VAEA6

PFPK-1 - PRESS



04-055 CMPS CRT (C4)  
VAEA6

1)Verify PAGE-B RED Inverted:

SWITCH SCAN INCORRECT. READING BOTH  
OPEN AND CLOSED.

2)Verify PAGE-B RED:

PNL R2 HE ISO A LEFT

3) Verify PAGE-B YELLOW:

ERROR IN SWITCH SCAN. PLEASE  
CHOOSE PFPK2 OR PFPK5

04-056 CMPS Math Model

1)PAGE BREAK KEY - Press

R F V41S1255E1;

CDS XMIT KEY - Press

2)PAGE BREAK KEY - Press

R F V41S1265E1;

CDS XMIT KEY - Press

3) PAGE BREAK KEY - Press

APPLY 0.U TO <QS12R2HEISBC>;

CDS XMIT KEY - Press

4) PAGE BREAK KEY - Press

APPLY 0.U TO <QS56R2HEISAL>;

CDS XMIT KEY - Press

5) PAGE BREAK KEY - Press

APPLY 0.U TO <QS13R2HEISBL>;

CDS XMIT KEY - Press

6) PAGE BREAK KEY - Press

APPLY 0.U TO <QS57R2HEISAR>;

CDS XMIT KEY - Press

7) PAGE BREAK KEY - Press

APPLY 0.U TO <QS14R2HEISBR>;

CDS XMIT KEY - Press

8) PAGE BREAK KEY - Press

APPLY 0.U TO <QS09R2HEINTC>;

CDS XMIT KEY - Press

9) PAGE BREAK KEY - Press

APPLY 0.U TO <QS10R2HEINTL>;

CDS XMIT KEY - Press

10) PAGE BREAK KEY - Press

APPLY 0.U TO <QS11R2HEINTR>;

CDS XMIT KEY - Press

11) PAGE BREAK KEY - Press

APPLY 0.U TO <QS11R4L02PV1>;

CDS XMIT KEY - Press

- 12) PAGE BREAK KEY - Press  
APPLY 0.U TO <QS13R4L02PV3>;  
CDS XMIT KEY - Press
- 13) PAGE BREAK KEY - Press  
APPLY 0.U TO <QS14R4LH2PV4>;  
CDS XMIT KEY - Press
- 14) PAGE BREAK KEY - Press  
APPLY 0.U TO <QS07R4LH2P12>;  
CDS XMIT KEY - Press

04-057 CMPS Console KYBD (C4)  
VAEA6

PFPK-4 - Press

Verify Current Test Is Aborted.

04-058 CMPS TCS Please take OI and GPC out of GO mode for approximately 15 seconds then back into GO mode, thank you.

04-059 CMPS CRT (C4)  
VAEA6 - PAGE-B  
Verify RED OI and GPC with downward pointing arrow.

04-060 CMPS Math Model  
  
PAGE BREAK KEY - Press  
F V99X4120X1 OFF;  
CDS XMIT KEY - Press

04-061 CMPS CRT (C4)  
VAEA6 - PAGE-B  
  
Verify RED HDA with downward pointing arrow.

04-062 CMPS Math Model  
  
PAGE BREAK KEY - Press  
F V99X4120X1 ON;  
CDS XMIT KEY - Press

04-063 CMPS CRT (C4)  
VAEA6 - PAGE-B  
  
After TCS has the GPC and OI brought back up,  
Verify GREEN OI and GPC having format numbers,  
and GREEN HDA with upward pointing arrow.

05-000 Bus Redundancy Test - Nominal Keys Test

05-001 CMPS Console KYBD (C4)  
VAEA6

PAGE CLEAR - Press

05-002 CMPS Console KYBD (C4)  
VAEA6

PFK11 - Press

05-003 CMPS CRT (C4)  
VAEA6

Verify VDE52 is Displayed To PAGE-B

05-004 CMPS Console KYBD (C4)  
VAEA6

PFK15 - Press

05-005 CMPS CRT (C4)  
VAEA6

Verify The Following Message Is Output  
To PAGE-B In Yellow:

ABORTING CURRENT TEST  
RETURNING TO MONITOR LOOP  
IF ALL EPDC CONTROL BUSSES ARE NOT UP,  
PLEASE VERIFY ALL HELIUM  
ISOLATION VALVE SWITCHES ARE CLOSED.

PFPK-1 - Press

Verify TERMINATE Is Inverted  
Verify TERMINATE Is Erased From PFPK-6 and Both  
Orange and Green LED's are Lit.  
Verify The Following On PAGE-B GREEN:

POSITION TO CLOSE  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT  
PNL R2 PNEUMATICS HE ISO

05-006 CMPS Console KYBD (C4)  
VAEA6

PFPK-1 - Press

05-007 CMPS CRT (C4)  
VAEA6

Verify The Following:

SWITCH IN INCORRECT POSITION, SB:  
CLOSED  
PNL R2 HE ISO A CENTER  
SWITCH IN INCORRECT POSITION, SB:  
CLOSED  
PNL R2 HE ISO B CENTER  
SWITCH IN INCORRECT POSITION, SB:  
CLOSED  
PNL R2 HE ISO A LEFT  
SWITCH IN INCORRECT POSITION, SB:  
CLOSED  
PNL R2 HE ISO B LEFT  
SWITCH IN INCORRECT POSITION, SB:  
CLOSED  
PNL R2 HE ISO A RIGHT  
SWITCH IN INCORRECT POSITION, SB:  
CLOSED  
PNL R2 HE ISO B RIGHT  
SWITCH IN INCORRECT POSITION, SB:  
CLOSED  
PNL R2 PNEUMATICS HE ISO

05-008 CMPS Console KYBD (C4)  
VAEA6

PFPK-5 - Press

05-009 CMPS CRT (C4)  
VAEA6

See <PAGE-A>  
Verify All LED's and PFPK's lights clear less PFPK1  
Verify Messages PAGE-A :

TO ACTIVATE EMONS ON FUNCTION DESIGNATORS WITH C3 RSYS ENTER  
"VAE91,,1" ON THE COMMAND LINE AT CONSOLE C3 AND PRESS <PERF PGM>.

WHEN COMPLETE PRESS CONTINUE - PFPK1

PFPK1 - CONTINUE - Press

Verify Program Terminates and Page-A and Page-B clear.

Verify The Following:

PAGE-A Cleared

MPS/SSME C3/C4  
REV. - B

SVP NO. - VAEA6

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PAGE-B Cleared  
PFPK's Cleared

05-010 CMPS Console KYBD (C10)

Terminate The Following Programs:

VAE18  
SAE12

05-011 CMPS Disconnect From The Math Model

06-000 BUS REDUNDANCY TEST - AB1/AB2 DOWN BUS REDUNDANCY TEST

NOTE : The following subsection will test AB1/AB2 Down Bus Redundancy test

06-001 CMPS Run Section 1 And Section 2

06-002 CMPS Run section 3, thru step 12 with the following information for Step 03-008 & 03-009:

```
----->-----  
P VPE41 2.U; > AB1AB2  
----->-----
```

06-003 CMPS Math Model

F V41X1405E1 ON;

06-004 CMPS Run section 3, thru step 12 with the following information for step 03-008 & 03-009:

```
----->-----  
P VPE41 2.U; > AB1AB2  
----->-----
```

06-005 CMPS CRT (C4)  
VAEA6

1)Verify The Test Continues and Prints  
Out The Following Error In YELLOW On PAGE-B:

VALVE CONFIGURATION ERRORS. REF PAGE-A

2)On PAGE-A, Console Printer Plotter, SPA  
Printer Verify The Following Error Messages:

```
VAEA6 - FD          FD DESCRIPTOR          CURRENT STATE  
<V41X1405E1> MPS LH2 INBD F/D VLV CL PWR (LV35) ON
```

06-006 CMPS Secure By Running Section 5

07-000 - POST OPERATIONS INSTRUCTIONS 1 - SECURING

Secure by running Section 05-000

Table 0  
Part 1

POSITION TO OPEN  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LH2 PROPELLANT FILL/DRAIN OTBD  
PNL R4 LO2 PROPELLANT FILL/DRAIN OTBD  
PNL R4 GH2 PRESS LINE VENT

Part 2

Part 3

Put all switches back to center (GPC, GND).

Table 1  
Drop Bus AB1

Part 1

POSITION TO OPEN  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER  
PNL R4 LH2 PROPELLANT FILL/DRAIN INBD  
PNL R4 LO2 PREVALVE RIGHT

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER

POSITION TO GND  
PNL R4 LH2 PROPELLANT FILL/DRAIN INBD

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE RIGHT

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER  
PNL R4 LO2 PREVALVE RIGHT

Bring back up Bus AB1  
Put all switches back to center (GPC, GND).

Table 2

Drop Bus AB1  
Drop Bus AB2

Part 1

POSITION TO OPEN  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER  
PNL R4 LH2 PROPELLANT FILL/DRAIN INBD

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER  
PNL R4 LH2 PROPELLANT FILL/DRAIN INBD

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER



Bring back up Bus AB1  
Bring back up Bus AB2  
Put all switches back to center (GPC, GND).

Table 3

Drop Bus AB1  
Drop Bus AB2  
Drop Bus AB3

Part 1

POSITION TO OPEN  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE CENTER

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE CENTER

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE CENTER

Bring back up Bus AB1  
Bring back up Bus AB2  
Bring back up Bus AB3  
Put all switches back to center (GPC, GND).

Table 4

Drop Bus AB2

Part 1

POSITION TO OPEN  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER  
PNL R4 LH2 PROPELLANT FILL/DRAIN INBD  
PNL R2 MPS PRPLT DUMP BACKUP LH2 VLV

Part 2

POSITION TO CLOSE  
PNL R2 HE ISO B LEFT

POSITION TO OUT OPEN  
PNL R2 HE INTERCONNECT CENTER

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER

POSITION TO GND  
PNL R4 PROPELLANT FILL/DRAIN LH2 INBD

POSITION TO CLOSE  
PNL R2 MPS PRPLT DUMP BACKUP LH2 VLV

Part 4

POSITION TO GPC  
PNL R2 HE ISO B LEFT  
PNL R2 HE INTERCONNECT CENTER  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER  
PNL R2 MPS PRPLT DUMP BACKUP LH2 VLV

Bring back up Bus AB2  
Put all switches back to center (GPC, GND).

Table 5

Drop Bus AB2  
Drop Bus AB3

Part 1

POSITION TO OPEN  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT

PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER  
PNL R4 PROPELLANT FILL/DRAIN LH2 INBD

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER

Bring back up Bus AB2  
Bring back up Bus AB3  
Put all switches back to center (GPC, GND).

Table 6

Drop Bus AB3

Part 1

POSITION TO OPEN  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER  
PNL R4 LH2 PROPELLANT FILL/DRAIN INBD  
PNL R2 LH2 ULLAGE PRESS  
PNL R2 PNEUMATICS HE ISOL

POSITION TO START  
PNL R2 MPS PRPLT DUMP SEQUENCE LO2

Part 2

POSITION TO CLOSE  
PNL R2 HE ISO B RIGHT

POSITION TO OUT OPEN  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER

POSITION TO GND  
PNL R4 LH2 PROPELLANT FILL/DRAIN INBD

POSITION TO AUTO  
PNL R2 LH2 ULLAGE PRESS

POSITION TO CLOSE  
PNL R2 PNEUMATICS HE ISOL

POSITION TO STOP  
PNL R2 MPS PRPLT DUMP SEQUENCE LO2

Part 4

POSITION TO GPC  
PNL R2 HE INTERCONNECT RIGHT  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER  
PNL R2 PNEUMATICS HE ISOL  
PNL R2 MPS PRPLT DUMP SEQUENCE LO2

Bring back up Bus AB3  
Put all switches back to center (GPC, GND).

Table 7

Drop Bus BC1

Part 1

POSITION TO OPEN  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT  
PNL R4 PROPELLANT FILL/DRAIN LO2 INBD

Part 2

POSITION TO CLOSE  
PNL R2 HE ISO B RIGHT  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT

POSITION TO GND  
PNL R4 PROPELLANT FILL/DRAIN LO2 INBD

Part 4

POSITION TO GPC  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT

Bring back up Bus BC1  
Put all switches back to center (GPC, GND).

Table 8

Drop Bus BC1  
Drop Bus BC2

Part 1

POSITION TO OPEN  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE LEFT

PNL R4 LH2 PREVALVE LEFT

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT

Bring back up Bus BC1  
Bring back up Bus BC2  
Put all switches back to center (GPC, GND).

Table 9

Drop Bus BC1  
Drop Bus BC2  
Drop Bus BC3

Part 1

POSITION TO OPEN  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE LEFT

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE LEFT

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE LEFT

Bring back up Bus BC1  
Bring back up Bus BC2  
Bring back up Bus BC3

Put all switches back to center (GPC, GND).

Table 10

Drop Bus BC2

Part 1

POSITION TO OPEN

PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN

PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN

PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT  
PNL R4 PROPELLANT FILL/DRAIN LO2 INBD  
PNL R4 MANIFOLD PRESS LH2  
PNL R2 LH2 ULLAGE PRESS  
PNL R2 MPS PRPLT DUMP BACKUP LH2 VLV

Part 2

POSITION TO CLOSE

PNL R2 HE ISO B CENTER

POSITION TO OUT OPEN

PNL R2 HE INTERCONNECT LEFT

POSITION TO CLOSE

PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT

POSITION TO GND

PNL R4 PROPELLANT FILL/DRAIN LO2 INBD

POSITION TO CLOSE

PNL R4 MANIFOLD PRESS LH2

POSITION TO AUTO

PNL R2 LH2 ULLAGE PRESS

POSITION TO STOP

PNL R2 MPS PRPLT DUMP BACKUP LH2 VLV

Part 4

POSITION TO GPC  
PNL R2 HE ISO B CENTER

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT LEFT

POSITION TO GPC  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT  
PNL R4 MANIFOLD PRESS LH2  
PNL R2 MPS PRPLT DUMP BACKUP LH2 VLV

Bring back up Bus BC2  
Put all switches back to center (GPC, GND).

Table 11

Drop Bus BC2  
Drop Bus BC3

Part 1

POSITION TO OPEN  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT

Bring back up Bus BC2  
Bring back up Bus BC3  
Put all switches back to center (GPC, GND).



Table 12

Drop Bus BC3

Part 1

POSITION TO OPEN

PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN

PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN

PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT  
PNL R4 MANIFOLD PRESS LH2  
PNL R2 PNEUMATICS HE ISOL

POSITION TO START

PNL R2 MPS PRPLT DUMP SEQUENCE LO2

Part 2

POSITION TO OUT OPEN

PNL R2 HE INTERCONNECT CENTER

POSITION TO CLOSE

PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT  
PNL R4 MANIFOLD PRESS LH2  
PNL R2 PNEUMATICS HE ISOL

POSITION TO STOP

PNL R2 MPS PRPLT DUMP SEQUENCE LO2

Part 3

POSITION TO GPC

PNL R2 HE INTERCONNECT CENTER  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT  
PNL R4 MANIFOLD PRESS LH2  
PNL R2 PNEUMATICS HE ISOL  
PNL R2 MPS PRPLT DUMP SEQUENCE LO2

Bring back up Bus BC3  
Put all switches back to center (GPC, GND).

Table 13  
Drop Bus CA1

Part 1

POSITION TO OPEN  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT

POSITION TO CLOSE  
PNL R4 FEEDLINE RLF ISOL LO2  
PNL R4 FEEDLINE RLF ISOL LH2

POSITION TO OPEN  
PNL R4 MANIFOLD PRESS LO2  
PNL R2 LH2 ULLAGE PRESS

Part 2

POSITION TO CLOSE  
PNL R2 HE ISO B LEFT

POSITION TO OUT OPEN  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT

POSITION TO GPC  
PNL R4 FEEDLINE RLF ISOL LO2  
PNL R4 FEEDLINE RLF ISOL LH2

POSITION TO CLOSE  
PNL R4 MANIFOLD PRESS LO2

POSITION TO AUTO

PNL R2 LH2 ULLAGE PRESS

Part 4

POSITION TO GPC  
PNL R2 HE INTERCONNECT RIGHT  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT

Bring back up Bus CA1  
Put all switches back to center (GPC, GND).

Table 14

Drop Bus CA1  
Drop Bus CA2

Part 1

POSITION TO OPEN  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT

POSITION TO CLOSE  
PNL R4 FEEDLINE RLF ISOL LO2  
PNL R4 FEEDLINE RLF ISOL LH2

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT

POSITION TO GPC  
PNL R4 FEEDLINE RLF ISOL LO2  
PNL R4 FEEDLINE RLF ISOL LH2

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE RIGHT

PNL R4 LH2 PREVALVE RIGHT

Bring back up Bus CA1  
Bring back up Bus CA2  
Put all switches back to center (GPC, GND).

Table 15

Drop Bus CA1  
Drop Bus CA2  
Drop Bus CA3

Part 1

POSITION TO OPEN  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE RIGHT

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE RIGHT

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE RIGHT

Bring back up Bus CA1  
Bring back up Bus CA2  
Bring back up Bus CA3  
Put all switches back to center (GPC, GND).

Table 16

Drop Bus CA2

Part 1

POSITION TO OPEN  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT

PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT

POSITION TO CLOSE  
PNL R4 FEEDLINE RLF ISOL LO2  
PNL R4 FEEDLINE RLF ISOL LH2

POSITION TO OPEN  
PNL R4 MANIFOLD PRESS LO2

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT

POSITION TO GPC  
PNL R4 FEEDLINE RLF ISOL LO2  
PNL R4 FEEDLINE RLF ISOL LH2

POSITION TO CLOSE  
PNL R4 MANIFOLD PRESS LO2

Part 4

POSITION TO GPC  
PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT  
PNL R4 MANIFOLD PRESS LO2

Bring back up Bus CA2  
Put all switches back to center (GPC, GND).

Table 17

Drop Bus CA2  
Drop Bus CA3

Part 1

POSITION TO OPEN  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN  
PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT

POSITION TO CLOSE  
PNL R4 FEEDLINE RLF ISOL LO2  
PNL R4 FEEDLINE RLF ISOL LH2

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT

POSITION TO GPC  
PNL R4 FEEDLINE RLF ISOL LO2  
PNL R4 FEEDLINE RLF ISOL LH2

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT

Bring back up Bus CA2  
Bring back up Bus CA3  
Put all switches back to center (GPC, GND).

Table 18

Drop Bus CA3

Part 1

POSITION TO OPEN  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT

POSITION TO IN OPEN  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT

POSITION TO OPEN

PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT

POSITION TO CLOSE  
PNL R4 FEEDLINE RLF ISOL LO2  
PNL R4 FEEDLINE RLF ISOL LH2

Part 2

POSITION TO CLOSE  
PNL R2 HE ISO B CENTER

POSITION TO OUT OPEN  
PNL R2 HE INTERCONNECT LEFT

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT

POSITION TO GPC  
PNL R4 FEEDLINE RLF ISOL LO2  
PNL R4 FEEDLINE RLF ISOL LH2

Part 4

POSITION TO GPC  
PNL R2 HE ISO A CENTER  
PNL R2 HE ISO B CENTER  
PNL R2 HE ISO A LEFT  
PNL R2 HE ISO B LEFT  
PNL R2 HE ISO A RIGHT  
PNL R2 HE ISO B RIGHT  
PNL R2 HE INTERCONNECT CENTER  
PNL R2 HE INTERCONNECT LEFT  
PNL R2 HE INTERCONNECT RIGHT  
PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT

Bring back up Bus CA3  
Put all switches back to center (GPC, GND).

Table 19

Drop Bus CA1  
Drop Bus CA3

Part 1

POSITION TO OPEN  
PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT

POSITION TO CLOSE  
PNL R4 FEEDLINE RLF ISOL LO2

PNL R4 FEEDLINE RLF ISOL LH2

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT

POSITION TO GPC  
PNL R4 FEEDLINE RLF ISOL LO2  
PNL R4 FEEDLINE RLF ISOL LH2

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE RIGHT  
PNL R4 LH2 PREVALVE RIGHT

Bring back up Bus CA1  
Bring back up Bus CA3  
Put all switches back to center (GPC, GND).

Table 20

Drop Bus AB1  
Drop Bus BC1  
Drop Bus CA1

Part 1

POSITION TO OPEN  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LO2 PREVALVE RIGHT

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LO2 PREVALVE RIGHT

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LO2 PREVALVE RIGHT

Bring back up Bus AB1  
Bring back up Bus BC1  
Bring back up Bus CA1  
Put all switches back to center (GPC, GND).



Table 21

Drop Bus BC2  
Drop Bus CA1

Part 1

POSITION TO OPEN  
PNL R4 LO2 PREVALVE LEFT  
PNL R2 LH2 ULLAGE PRESS

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE LEFT

POSITION TO AUTO  
PNL R2 LH2 ULLAGE PRESS

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE LEFT

Bring back up Bus BC2

Bring back up Bus CA1

Put all switches back to center (GPC, GND).

Table 22

Drop Bus AB1  
Drop Bus AB3

Part 1

POSITION TO OPEN  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER  
PNL R4 LH2 PROPELLANT FILL/DRAIN INBD

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER  
PNL R4 LH2 PROPELLANT FILL/DRAIN INBD

Part 4

POSITION TO GPC  
PNL R4 LO2 PREVALVE CENTER  
PNL R4 LH2 PREVALVE CENTER

Bring back up Bus AB1

Bring back up Bus AB3

Put all switches back to center (GPC, GND).

Table 23

Drop Bus AB1  
Drop Bus CA2

Part 1

POSITION TO OPEN  
PNL R4 LO2 PREVALVE RIGHT

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE RIGHT

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE RIGHT

Bring back up Bus AB1  
Bring back up Bus CA2  
Put all switches back to center (GPC, GND).

Table 24

Drop Bus BC1  
Drop Bus BC3

Part 1

POSITION TO OPEN  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE LEFT  
PNL R4 LH2 PREVALVE LEFT

Bring back up Bus BC1  
Bring back up Bus BC3  
Put all switches back to center (GPC, GND).

Table 25

Drop Bus AB2

Drop Bus BC1

Part 1

POSITION TO OPEN  
PNL R4 LO2 PREVALVE CENTER

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE CENTER

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE CENTER

Bring back up Bus AB2  
Bring back up Bus BC1  
Put all switches back to center (GPC, GND).

Table 26

Drop Bus AB1  
Drop Bus CA3

Part 1

POSITION TO OPEN  
PNL R4 LO2 PREVALVE RIGHT

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE RIGHT

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE RIGHT

Bring back up Bus AB1  
Bring back up Bus CA3  
Put all switches back to center (GPC, GND).

Table 27

Drop Bus AB3  
Drop Bus BC1

Part 1

POSITION TO OPEN  
PNL R4 LO2 PREVALVE CENTER

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE CENTER

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE CENTER

Bring back up Bus AB3  
Bring back up Bus BC1  
Put all switches back to center (GPC, GND).

Table 28

Drop Bus AB2  
Drop Bus AB3  
Drop Bus BC1

Part 1

POSITION TO OPEN  
PNL R4 LO2 PREVALVE CENTER

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE CENTER

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE CENTER

Bring back up Bus AB2  
Bring back up Bus AB3  
Bring back up Bus BC1  
Put all switches back to center (GPC, GND).

Table 29

Drop Bus AB1  
Drop Bus AB3  
Drop Bus BC1  
Drop Bus CA1

Part 1

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE CENTER

Part 2

POSITION TO OPEN

PNL R4 LO2 PREVALVE CENTER

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE CENTER

Bring back up Bus AB1  
Bring back up Bus AB3  
Bring back up Bus BC1  
Bring back up Bus CA1  
Put all switches back to center (GPC, GND).

Table 30

Drop Bus BC3  
Drop Bus CA1

Part 1

POSITION TO OPEN  
PNL R4 LO2 PREVALVE LEFT

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE LEFT

Part 3

No switch actions

Bring back up Bus BC3  
Bring back up Bus CA1  
Put all switches back to center (GPC, GND).

Table 31

Drop Bus BC2  
Drop Bus BC3  
Drop Bus CA1

Part 1

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE LEFT

Part 2

POSITION TO OPEN  
PNL R4 LO2 PREVALVE LEFT

Part 3

No switch actions

Bring back up Bus BC2  
Bring back up Bus BC3  
Bring back up Bus CA1  
Put all switches back to center (GPC, GND).

Table 32

Drop Bus AB1  
Drop Bus BC1  
Drop Bus BC3  
Drop Bus CA1

Part 1

POSITION TO OPEN  
PNL R4 LO2 PREVALVE LEFT

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE LEFT

Part 3

No switch actions

Bring back up Bus AB1  
Bring back up Bus BC1  
Bring back up Bus BC3  
Bring back up Bus CA1  
Put all switches back to center (GPC, GND).

Table 33

Drop Bus AB1  
Drop Bus BC1  
Drop Bus CA1  
Drop Bus CA3

Part 1

POSITION TO OPEN  
PNL R4 LO2 PREVALVE RIGHT

Part 2

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE RIGHT

Part 3

No switch actions

Bring back up Bus AB1

Bring back up Bus BC1  
Bring back up Bus CA1  
Bring back up Bus CA3  
Put all switches back to center (GPC, GND).

Table 34

Drop Bus AB1  
Drop Bus CA2  
Drop Bus CA3

Part 1

POSITION TO CLOSE  
PNL R4 LO2 PREVALVE RIGHT

Part 2

POSITION TO OPEN  
PNL R4 LO2 PREVALVE RIGHT

Part 3

POSITION TO GPC  
PNL R4 LO2 PREVALVE RIGHT

Bring back up Bus AB1  
Bring back up Bus CA2  
Bring back up Bus CA3  
Put all switches back to center (GPC, GND).

Table 35

Drop Bus AB3  
Drop Bus BC2

Part 1

POSITION TO OPEN  
PNL R2 LH2 ULLAGE PRESS

Part 2

POSITION TO AUTO  
PNL R2 LH2 ULLAGE PRESS

Part 3

No switch actions

Bring back up Bus AB3  
Bring back up Bus BC2  
Put all switches back to center (GPC, GND).

Table 36

Drop Bus AB3  
Drop Bus CA1

Part 1

POSITION TO OPEN  
PNL R2 LH2 ULLAGE PRESS

Part 2

POSITION TO AUTO  
PNL R2 LH2 ULLAGE PRESS

Part 3

No switch actions

Bring back up Bus AB3  
Bring back up Bus CA1  
Put all switches back to center (GPC, GND).