C- A Controls Section
Bldg. 911B Wiring Diagrams
BNL Drawing Number

Brookhaven National Laboratory, Upton, New York 11973

Created By: Phil Pape
Last Updated 8/15/01

Power Distribution
📖 Rack 5323 (Sheet 4)

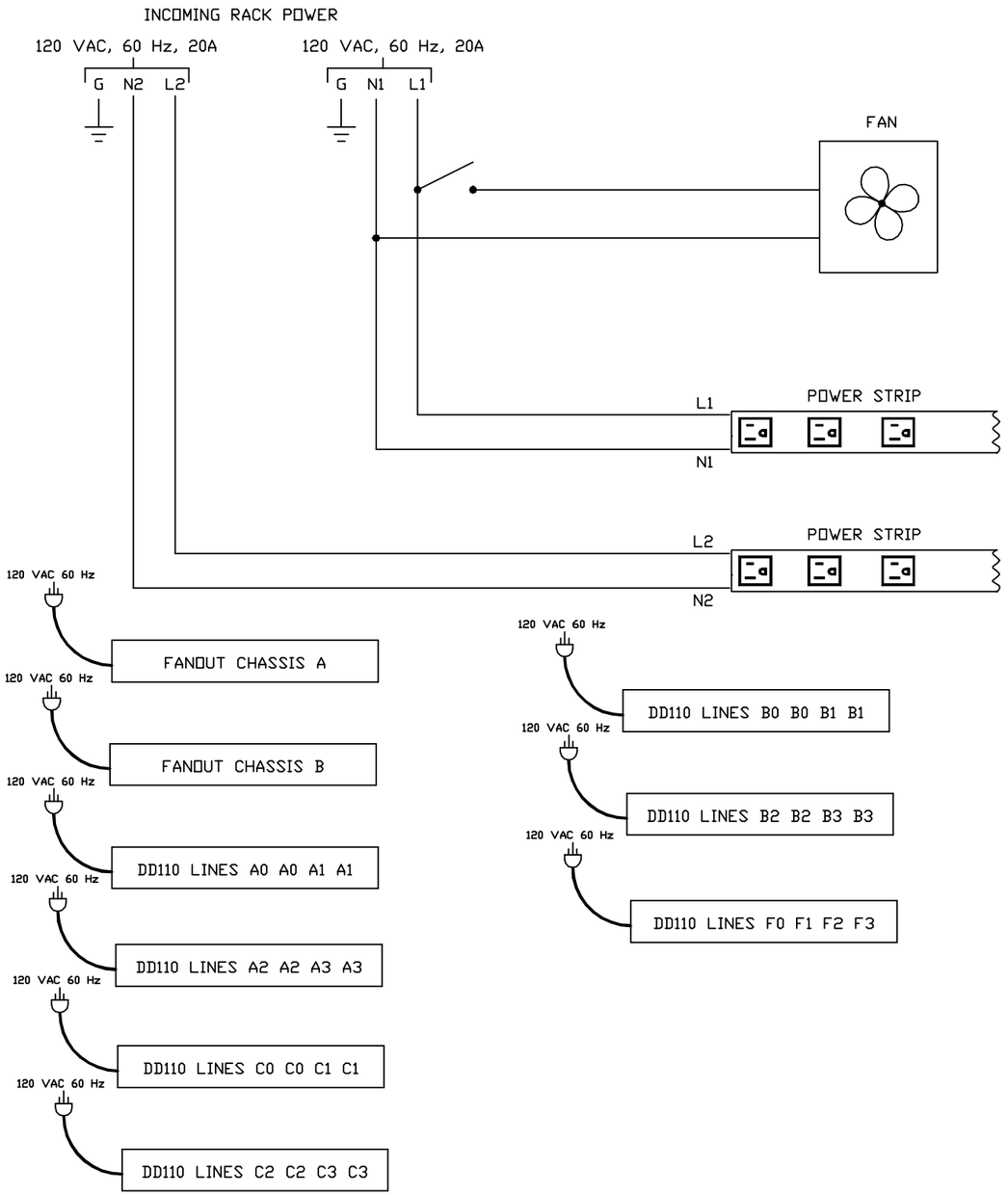
Serial Links
📖 AGS Event Link (Sheet 5)
📖 Reset Link (Sheet 6)

VME Chassis CST.911.DCTN_AC Modules
📖 Front End Computer, V108 Utility Module (Sheet 7)
📖 V110 / T110 Datacon Master System A (Sheet 9)
📖 V110 / T110 Datacon Master System C (Sheet 10)

VME Chassis CST.911.DCTN_BF Modules
📖 Front End Computer, V108 Utility Module (Sheet 8)
📖 V110 / T110 Datacon Master System B (Sheet 11)
📖 V110 / T110 Datacon Master System F (Sheet 12)
📖 V102 Delay Module (Sheet 13)
📖 V102 Delay Module #2 (Sheet 14)

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 5/22/01 1:51 PM 5323_AC.dwg



RACK 5323

NOTE: ALL 120 VAC, 60 Hz POWER CORDS
PLUG INTO POWER STRIP OUTLETS

NOTE: ALL 120 VAC, 60 Hz POWER CORDS
PLUG INTO POWER STRIP OUTLETS

QTY REQD -3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		AR		4	SERIAL LINK TWINAX CABLE, LENGTH AS REQUIRED	94028176
		X	X	3	X	X
		X	X	2	TRANSITION MODULE T110 to DD110 RIBBON CABLE	
		2		1	NETWORK CABLE TO FEC	

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES
.X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE ± .5°

OUTSTANDING ECN

NA FINISH

BREAK SHARP EDGES MAX. XX MIN. XX

Q.A. CATEGORY A-3

DRAWN BY PAPE DATE 05/16/01

CHECKED BY

DESIGN APPROVAL

ENGINEER APPROVAL

SUPVR. APPROVAL

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

C-A CONTROLS WIRING DIAGRAM
BLDG 911B, RACK 5323
POWER DISTRIBUTION

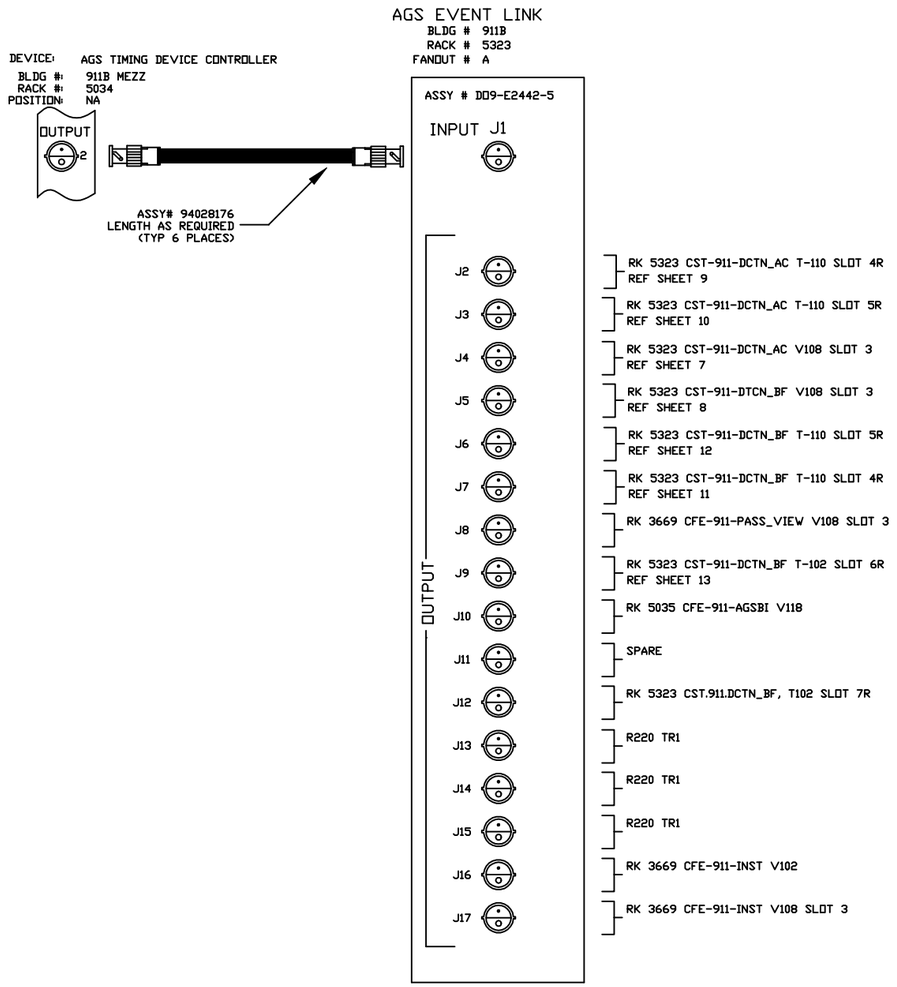
SIZE D | DRAWING NUMBER | REV. A

MATERIAL: ——— SCALE: FULL WEIGHT: – SHEET 4 of 13

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 8/14/01 3:35 PM EVENT.dwg



-3 / -2 / -1 QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L. DWG NO./DWG. NO.

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES
X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE ± .5°

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

OUTSTANDING ECN

Q.A. CATEGORY A-3

DRAWN BY PAPE DATE 05/16/01

CHECKED BY

DESIGN APPROVAL

ENGINEER APPROVAL

SUPVR. APPROVAL

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

C-A CONTROLS WIRING DIAGRAM

BLDG 911B

EVENT LINK

SIZE D

DRAWING NUMBER

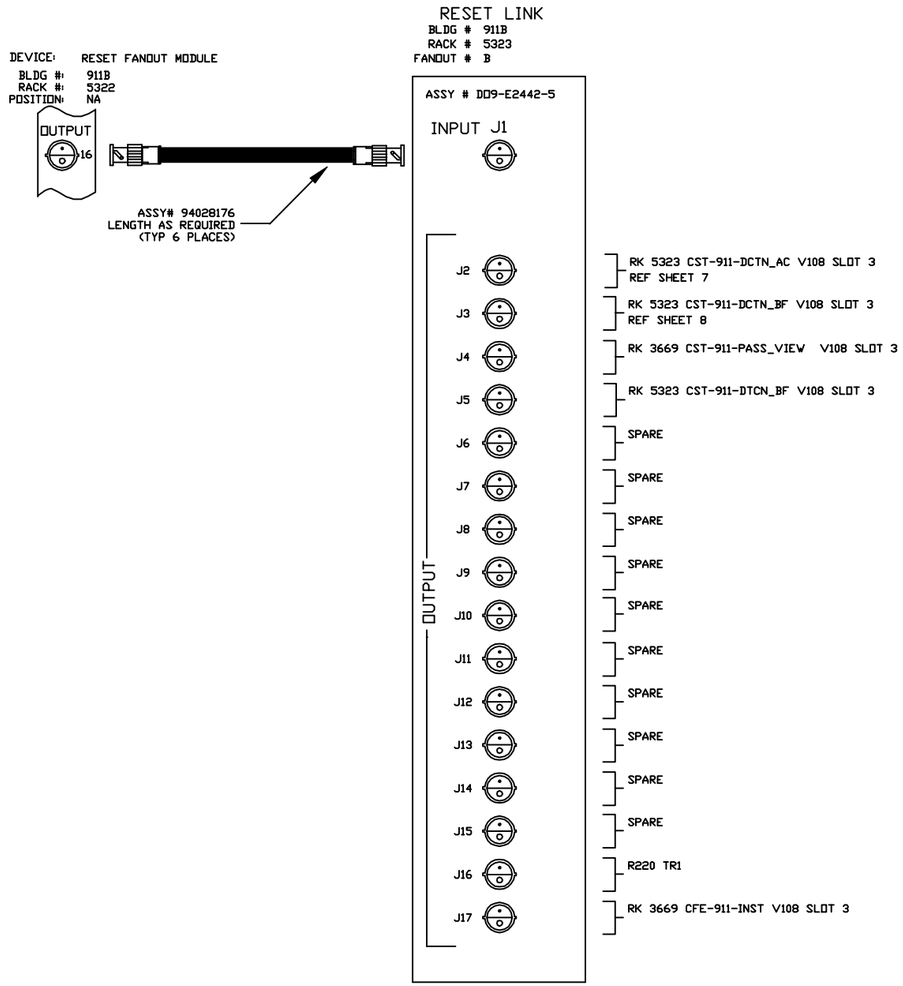
REV. A

MATERIAL: ——— SCALE: NA WEIGHT: — SHEET 5 of 13

8 7 6 5 4 3 2 1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 5/22/01 1:56 PM RESET.dwg



-3	-2	-1	QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L SPEC NO./DWG NO.

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES
.X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE
± .5'

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

OUTSTANDING ECN

Q.A. CATEGORY A-3

NEXT ASSEMBLY

DRAWN BY	PAPE	05/16/01
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

DATE

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

C-A CONTROLS WIRING DIAGRAM

BLDG 911B

RESET LINK

SIZE D

DRAWING NUMBER

REV. A

MATERIAL: ———— SCALE: NA WEIGHT: — SHEET 6 of 13

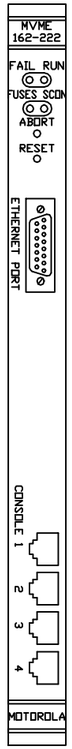
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 5/22/01 1:58 PM FRONT_END.dwg

FRONT END COMPUTER

BLDG #: 911B
RACK #: 5323
CHASSIS ID: CST.911.DCTN_AC
SLOT#: 1
FEC NAME: ACNFEC101

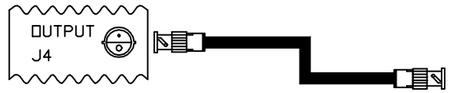


ETHERNET NETWORK

REF. NETWORK DIAGRAM

AGS EVENT LINK

BLDG #: 911B
RACK #: 5323
FANOUT #: A



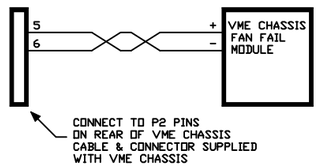
RESET LINK

BLDG #: 911B
RACK #: 5323
FANOUT #: B

DEVICE: V108 UTILITY MODULE

BLDG #: 911B
RACK #: 5323
CHASSIS ID: CST.911.DCTN_AC
SLOT #: 3
A24 BASE ADDRESS: 0XF0004000

ASSY# 94028094



JUMPER LIST

E25 through E50 are configured for remote reset address at the time of board acceptance test.
DO NOT MODIFY!

Remote reset pulls VME SYS Reset.
E58-E60, E59-E61

A24 BASE ADDRESS= 4000h
E57-E13, E2-E14, E3-E15, E4-E16, E5-E17, E6-E18
E7-E19, E8-E20, E9-E21, E10-E22, E11-E24, E57-E23
SW1=OPEN
SW2=CLOSED
SW3=OPEN
SW4=OPEN

-3	-2	-1	QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L SPEC NO./DWG NO./PART NO.

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005
ANGULAR TOLERANCE ± .5°
FINISH NA
BREAK SHARP EDGES MAX. XX MIN. XX
OUTSTANDING ECN
NEXT ASSEMBLY

Q.A. CATEGORY A-3
DRAWN BY PAPE DATE 05/11/01
CHECKED BY
DESIGN APPROVAL
ENGINEER APPROVAL
SUPVR. APPROVAL

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
C-A CONTROLS WIRING DIAGRAM
911B, VME CHASSIS CST.911.DCTN_AC
FT END COMP/V108 UTIL MODULE

SIZE D
DRAWING NUMBER
REV. A
MATERIAL: ——— SCALE: NA WEIGHT: — SHEET 7 of 13

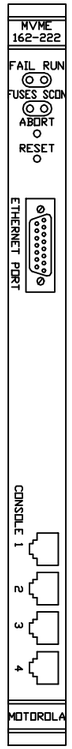
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 5/22/01 2:00 PM FRONT_END_2.dwg

FRONT END COMPUTER

BLDG #: 911B
RACK #: 5323
CHASSIS ID: CST.911.DCTN_BF
SLOT#: 1
FEC NAME: ACNFEC100



ETHERNET NETWORK

REF. NETWORK DIAGRAM

AGS EVENT LINK

BLDG #: 911B
RACK #: 5323
FANOUT #: A

OUTPUT J5

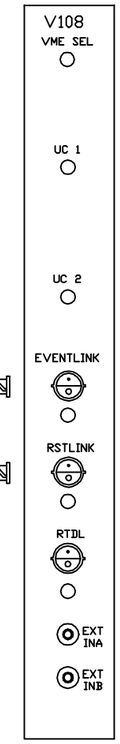
RESET LINK

BLDG #: 911B
RACK #: 5323
FANOUT #: B

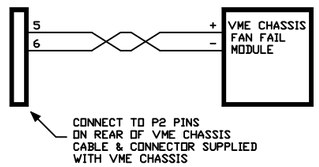
OUTPUT J3

DEVICE: V108 UTILITY MODULE

BLDG #: 911B
RACK #: 5323
CHASSIS ID: CST.911.DCTN_BF
SLOT #: 3
A24 BASE ADDRESS: 0XF0004000



ASSY# 94028094



JUMPER LIST

E25 through E50 are configured for remote reset address at the time of board acceptance test.
DO NOT MODIFY!

Remote reset pulls VME SYS Reset.
E58-E60, E59-E61

A24 BASE ADDRESS= 4000h
E57-E13, E2-E14, E3-E15, E4-E16, E5-E17, E6-E18
E7-E19, E8-E20, E9-E21, E10-E22, E11-E24, E57-E23
SW1=OPEN
SW2=CLOSED
SW3=OPEN
SW4=OPEN

-3	-2	-1 QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./ENG. NO.

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005
ANGULAR TOLERANCE ± .5°
FINISH NA
BREAK SHARP EDGES MAX. XX MIN. XX
OUTSTANDING ECN
NEXT ASSEMBLY

Q.A. CATEGORY A-3
DRAWN BY PAPE DATE 05/11/01
CHECKED BY
DESIGN APPROVAL
ENGINEER APPROVAL
SUPVR. APPROVAL

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
C-A CONTROLS WIRING DIAGRAM
911B, VME CHASSIS CST.911.DCTN_BF
FT END COMP/V108 UTIL MODULE

SIZE D | DRAWING NUMBER | REV. A
MATERIAL: ——— | SCALE: NA | WEIGHT: — | SHEET 8 of 13

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 5/22/01 11:32 AM V110_A.dwg

V-110
BLDG #: 911B
RACK #: 5323
CHASSIS ID: CFE-911-DCTN_AC
SLOT #: 4
A24 BASE ADDRESS: 0X0E00000

V110
EVENTLNK
RUN
SELF TEST
FAIL
DATACON MASTER
RESET
DCN ACT
VME SEL
ACS

P-110
BLDG #: 911B
RACK #: 5323
CHASSIS ID: CFE-911-DCTN_AC
SLOT #: 4R
BASE ADDRESS:

AGS EVENT LINK
BLDG #: 911B
RACK #: 5323
FANOUT #: A
OUTPUT J2

T-110
BLDG #: 911B
RACK #: 5323
CHASSIS ID: CFE-911-DCTN_AC
SLOT #: 4R
BASE ADDRESS:

T110
CHANNEL 1 & 2
DATACON MASTER TRANS MOD
CHANNEL 3 & 4
EVENTLNK
ACS

DD-110-1
BLDG #: 911B
RACK #: 5323
CHASSIS ID:
SLOT #: A
BASE ADDRESS:
+5v
+15v
-15v
DATACON DRIVER ASSEMBLY DD-110-1 D09-E2256-5 2WAY
DCTN A0
DCTN A0
DCTN A1
DCTN A1

DD-110-1
BLDG #: 911B
RACK #: 5323
CHASSIS ID:
SLOT #: B
BASE ADDRESS:
+5v
+15v
-15v
DATACON DRIVER ASSEMBLY DD-110-1 D09-E2256-5 2WAY
DCTN A2
DCTN A2
DCTN A3
DCTN A3

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: A
INPUT 1 OUTPUT 1
PPA, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 0-377

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: A
INPUT 2 OUTPUT 2
PPA, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 0-377

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: A
INPUT 3 OUTPUT 3
PPA, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 400-777

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: A
INPUT 4 OUTPUT 4
PPA, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 400-777

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: B
INPUT 1 OUTPUT 1
PPA, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 1000-1377

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: B
INPUT 2 OUTPUT 2
PPA, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 1000-1377

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: B
INPUT 3 OUTPUT 3
PPA, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 1400-1777

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: B
INPUT 4 OUTPUT 4
PPA, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 1400-1777

-3 -2 -1 QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005
ANGULAR TOLERANCE ± .5'
FINISH NA
BREAK SHARP EDGES MAX. XX MIN. XX
OUTSTANDING ECN

Q.A. CATEGORY A-3
DRAWN BY PAPE 05/18/01
CHECKED BY
DESIGN APPROVAL
ENGINEER APPROVAL
SUPVR. APPROVAL
NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
C-A CONTROLS WIRING DIAGRAM
BLDG 911B, CHASSIS CFE-911-DCTN_AC
V-110 DTCN A

SIZE D DRAWING NUMBER REV. A
MATERIAL: ——— SCALE: FULL WEIGHT: – SHEET 9 of 13

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 8/15/01 11:25 AM V110_C.dwg

V-110
BLDG #: 911B
RACK #: 5323
CHASSIS ID: CFE-911-DCTN_AC
SLOT #: 5
A24 BASE ADDRESS: 0X0C00000

V110
EVENTLNK
RUN
SELF TEST
FAIL
DATACON MASTER
RESET
DCN ACT
VME SEL
ACS

P-110
BLDG #: 911B
RACK #: 5323
CHASSIS ID: CFE-911-DCTN_AC
SLOT #: 5R
BASE ADDRESS:

AGS EVENT LINK
BLDG #: 911B
RACK #: 5323
FANOUT #: A
OUTPUT J3

T-110
BLDG #: 911B
RACK #: 5323
CHASSIS ID: CFE-911-DCTN_AC
SLOT #: 5R
BASE ADDRESS:

T110
CHANNEL 1 & 2
DATACON MASTER TRANS MOD
CHANNEL 3 & 4
EVENTLNK
ACS

DD-110-1
BLDG #: 911B
RACK #: 5323
CHASSIS ID:
SLOT #: C
BASE ADDRESS:
+5v
+15v
-15v
DATACON DRIVER ASSEMBLY DD-110-1 D09-E2256-5 2WAY
DCTN C0
DCTN C0
DCTN C1
DCTN C1

DD-110-1
BLDG #: 911B
RACK #: 5323
CHASSIS ID:
SLOT #: D
BASE ADDRESS:
+5v
+15v
-15v
DATACON DRIVER ASSEMBLY DD-110-1 D09-E2256-5 2WAY
DCTN C2
DCTN C2
DCTN C3
DCTN C3

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: C
INPUT 1 OUTPUT 1
PPC, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 0-377

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: C
INPUT 2 OUTPUT 2
PPC, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 0-377

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: C
INPUT 3 OUTPUT 3
PPC, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 400-777

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: C
INPUT 4 OUTPUT 4
PPC, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 400-777

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: D
INPUT 1 OUTPUT 1
PPC, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 1000-1377

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: D
INPUT 2 OUTPUT 2
PPC, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 1000-1377

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: D
INPUT 3 OUTPUT 3
PPC, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 1400-1777

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: D
INPUT 4 OUTPUT 4
PPC, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 1400-1777

-3 -2 -1 QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005
ANGULAR TOLERANCE ± .5°
NA FINISH
BREAK SHARP EDGES MAX. XX MIN. XX
OUTSTANDING ECN

Q.A. CATEGORY A-3
DRAWN BY PAPE 05/18/01
CHECKED BY
DESIGN APPROVAL
ENGINEER APPROVAL
SUPVR. APPROVAL
NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
C-A CONTROLS WIRING DIAGRAM
BLDG 911B, CHASSIS CFE-911-DCTN_AC
V-110 DTCN C

SIZE D | DRAWING NUMBER | REV. A
MATERIAL: —— SCALE: FULL WEIGHT: – SHEET 10 of 13

8 7 6 5 4 3 2 1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 8/15/01 11:26 AM V110_B.dwg

V-110
BLDG #: 911B
RACK #: 5323
CHASSIS ID: CFE-911-DCTN_BF
SLOT #: 4
A24 BASE ADDRESS: 0X0A00000

V110
EVENTLNK
RUN
SELF TEST
FAIL
DATACON MASTER
RESET
DCN ACT
VME SEL
ACS

P-110
BLDG #: 911B
RACK #: 5323
CHASSIS ID: CFE-911-DCTN_BF
SLOT #: 4R
BASE ADDRESS:

AGS EVENT LINK
BLDG #: 911B
RACK #: 5323
FANOUT #: A
OUTPUT J7

T-110
BLDG #: 911B
RACK #: 5323
CHASSIS ID: CFE-911-DCTN_BF
SLOT #: 4R
BASE ADDRESS:

T110
CHANNEL 1 & 2
DATACON MASTER TRANS MOD
CHANNEL 3 & 4
EVENTLNK
ACS

DD-110-1
BLDG #: 911B
RACK #: 5323
CHASSIS ID:
SLOT #: E
BASE ADDRESS:

+5v
+15v
-15v
DATACON DRIVER ASSEMBLY DD-110-1 D09-E2256-5 2WAY
DCTN B0
DCTN B0
DCTN B1
DCTN B1

DD-110-1
BLDG #: 911B
RACK #: 5323
CHASSIS ID:
SLOT #: F
BASE ADDRESS:

+5v
+15v
-15v
DATACON DRIVER ASSEMBLY DD-110-1 D09-E2256-5 2WAY
DCTN B2
DCTN B2
DCTN B3
DCTN B3

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: E
INPUT 1 OUTPUT 1 — PPB, SEE DATACON RUN BOOK FOR DETAILS DATACON ADDR 0-377

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: E
INPUT 2 OUTPUT 2 — PPB, SEE DATACON RUN BOOK FOR DETAILS DATACON ADDR 0-377

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: E
INPUT 3 OUTPUT 3 — PPB, SEE DATACON RUN BOOK FOR DETAILS DATACON ADDR 400-777

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: E
INPUT 4 OUTPUT 4 — PPB, SEE DATACON RUN BOOK FOR DETAILS DATACON ADDR 400-777

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: F
INPUT 1 OUTPUT 1 — PPB, SEE DATACON RUN BOOK FOR DETAILS DATACON ADDR 1000-1377

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: F
INPUT 2 OUTPUT 2 — PPB, SEE DATACON RUN BOOK FOR DETAILS DATACON ADDR 1000-1377

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: F
INPUT 3 OUTPUT 3 — PPB, SEE DATACON RUN BOOK FOR DETAILS DATACON ADDR 1400-1777

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: F
INPUT 4 OUTPUT 4 — PPB, SEE DATACON RUN BOOK FOR DETAILS DATACON ADDR 1400-1777

-3	-2	-1	QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005
ANGULAR TOLERANCE ± .5'
FINISH NA
BREAK SHARP EDGES MAX. XX MIN. XX
OUTSTANDING ECN

Q.A. CATEGORY A-3
DRAWN BY PAPE 05/18/01
CHECKED BY
DESIGN APPROVAL
ENGINEER APPROVAL
SUPVR. APPROVAL
NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
C-A CONTROLS WIRING DIAGRAM
BLDG 911B, CHASSIS CFE-911-DCTN_BF
V-110 DTCN B

SIZE D DRAWING NUMBER REV. A
MATERIAL: ——— SCALE: FULL WEIGHT: – SHEET 11 of 13

1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 8/15/01 11:34 AM V110_F.dwg

V-110
BLDG #: 911B
RACK #: 5323
CHASSIS ID: CFE-911-DCTN_BF
SLOT #: 5
A24 BASE ADDRESS: 0X0C00000

V110
EVENTLNK
RUN
SELF TEST
FAIL
DATACON
MASTER
RESET
DCN ACT
VME SEL
ACS

P-110
BLDG #: 911B
RACK #: 5323
CHASSIS ID: CFE-911-DCTN_BF
SLOT #: 5R
BASE ADDRESS:

T-110
BLDG #: 911B
RACK #: 5323
CHASSIS ID: CFE-911-DCTN_BF
SLOT #: 5R
BASE ADDRESS:

T110
CHANNEL 1 & 2
DATACON
MASTER TRANS MOD
CHANNEL 3 & 4
EVENTLNK
ACS

DD-110-1
BLDG #: 911B
RACK #: 5323
CHASSIS ID:
SLOT #: G
BASE ADDRESS:

+5v
+15v
-15v
DATACON DRIVER ASSEMBLY DD-110-1 D09-E2256-5 1WAY
DCTN F0
DCTN F1
DCTN F2
DCTN F3

AGS EVENT LINK
BLDG #: 911B
RACK #: 5323
FANOUT #: A
OUTPUT J6

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: G
INPUT 1 OUTPUT 1
PPF, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 0-377

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: G
INPUT 2 OUTPUT 2
PPF, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 400-777

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: G
INPUT 3 OUTPUT 3
PPF, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 1000-1377

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: 5323
POSITION: G
INPUT 4 OUTPUT 4
PPF, SEE DATACON RUN BOOK FOR DETAILS
DATACON ADDR 1400-1777

-3 -2 -1 QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
DECIMAL TOLERANCES
X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE ± .5'
NA FINISH
BREAK SHARP EDGES
MAX. XX MIN. XX
OUTSTANDING ECN

Q.A. CATEGORY A-3
DRAWN BY PAPE 05/18/01
CHECKED BY
DESIGN APPROVAL
ENGINEER APPROVAL
SUPVR. APPROVAL
NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
C-A CONTROLS WIRING DIAGRAM
BLDG 911B, CHASSIS CFE-911-DCTN_BF
V-110 DTCN F

SIZE D
DRAWING NUMBER
REV. A
MATERIAL: ——— SCALE: FULL WEIGHT: — SHEET 12 of 13

1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 5/22/01 2:06 PM V102.dwg

AGS EVENT LINK
BLDG #: 911B
RACK #: 5323
FANOUT #: A

OUTPUT J9

ASSY# 94028176
LENGTH AS REQUIRED

T-102
BLDG #: 911B
RACK #: RK 5323
CHASSIS ID: ACNFEC100
SLOT #: 6R
BASE ADDRESS: N/A

EVENTLINK

J1

T102

V102 DELAY MODULE
BLDG #: 911B
RACK #: RK 5323
CHASSIS ID: CST-911-DCTN_BF
SLOT #: 6
A16 BASE ADDRESS: 0XFFFFE600

V102

VME SEL

OFFLINE

EXT INPUTS
TRG 1/2
TRG 3/4
TRG 5/6
TRG 7/8
CLK

EVENTLINK

OUTPUTS
CH1
CH2
CH3
CH4
CH5
CH6
CH7
CH8

ASSY# 94028070

V108
BLDG #: 911B
RACK #: RK 3669
CHASSIS ID: CFE-911-INST
SLOT#: 3

EXTINTA

TTL to AGS CONVERTER
LOCATION: 911B
RACK#: 5323
RACK POSITION: A

J1 1 MHZ
J2 100 KHZ
J3 10 KHZ
J4 1 KHZ
J5
J6
J7
J8
J9
J10
J11
J12

DD9-E4379

V102 DELAY MODULE JUMPER LIST

A16 BASE ADDRESS 0XFFFFE600
JP1=OUT JP2=OUT JP3=OUT JP4=IN JP5=IN JP6=OUT JP7=OUT
EVENT LINK INPUT
JP8=IN JP9=OUT JP10=OUT
JP11=IN JP12=IN JP13=OUT JP14=IN

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: RK-3669
POSITION: AJ
INPUT 9 OUTPUT 9
TO 49L9, BLDG 911B RM 222
ATI.TRN_TRMSXT.CLK

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: RK-3669
POSITION: AG
INPUT 4 OUTPUT 4
TO 55N38, BLDG 911B RM 222
ASD.V102/1.CLK

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: RK-3669
POSITION: AJ
INPUT 6 OUTPUT 6
TO 49L6, BLDG 911 RM 222
TTI.TTL_IXFR.CLK

DEVICE: PATCH PANEL
BLDG #: 911B
RACK #: RK 3669
POSITION: AG
INPUT 1 OUTPUT 1
TO 55N35, BLDG 911B RM 222
ASD.V102/3.CLK

RG-62U
TYP 4 PLACES
LENGTH AS REQUIRED

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MATL DWG NO./BNL NO.
QTY REQD						

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005
ANGULAR TOLERANCE ± .5°
OUTSTANDING ECN
NA FINISH
BREAK SHARP EDGES MAX. XX MIN. XX

Q.A. CATEGORY A-3
DRAWN BY PAPE 05/21/01
CHECKED BY
DESIGN APPROVAL
ENGINEER APPROVAL
SUPVR. APPROVAL
NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
ASSOCIATED UNIVERSITIES, INC.
UPTON, N.Y. 11973

C-A CONTROLS WIRING DIAGRAM
BLDG 911B, RACK 5323
V102 DELAY MODULE

SIZE D DRAWING NUMBER REV. A
MATERIAL: —— SCALE: NA WEIGHT: — SHEET 13 of 13

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 8/15/01 11:35 AM V102_1.dwg

T-102
BLDG #: 911B
RACK #: RK 5323
CHASSIS ID: ACNFEC100
SLOT #: 7R
BASE ADDRESS: N/A

V102 DELAY MODULE #2
BLDG #: 911B
RACK #: RK 5323
CHASSIS ID: CST-911-DCTN_BF
SLOT #: 7
A16 BASE ADDRESS: 0XFFFFE800

AGS EVENT LINK
BLDG #: 911B
RACK #: 5323
FANOUT #: A

OUTPUT
J12

ASSY# 94028176
LENGTH AS REQUIRED

EVENTLNK

J1

T102

V102
VME SEL
OFFLINE
EXT INPUTS
TRG 1/2
TRG 3/4
TRG 5/6
TRG 7/8
CLK
EVENTLINK
OUTPUTS
CH1
CH2
CH3
CH4
CH5
CH6
CH7
CH8

ASSY# 94028070

V102 DELAY MODULE JUMPER LIST

A16 BASE ADDRESS 0XFFFFE800 JP1=OUT JP2=OUT JP3=OUT JP4=IN JP5=OUT JP6=IN JP7=IN
EVENT LINK INPUT JP8=IN JP9=OUT JP10=OUT
JP11=IN JP12=IN JP13=OUT JP14=IN

TTL to AGS CONVERTER
LOCATION: 911B
RACK#: 5323
RACK POSITION: A

J1 1 MHZ
J2 100 KHZ
J3 10 KHZ
J4 1 KHZ
J5
J6
J7
J8
J9
J10
J11
J12

DD9-E4379

-3	-2	-1	QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005
ANGULAR TOLERANCE ± .5°
FINISH NA
BREAK SHARP EDGES MAX. XX MIN. XX
OUTSTANDING ECN

Q.A. CATEGORY A-3
DRAWN BY PAPE 08/15/01
CHECKED BY
DESIGN APPROVAL
ENGINEER APPROVAL
SUPVR. APPROVAL
NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
ASSOCIATED UNIVERSITIES, INC.
UPTON, N.Y. 11973

C-A CONTROLS WIRING DIAGRAM
BLDG 911B, RACK 5323
V102 DELAY MODULE #2

SIZE D
DRAWING NUMBER
REV. A
MATERIAL: ———— SCALE: NA WEIGHT: – SHEET 13 of 13

*AUTOCAD