+24VDC
IN01B11-18CB4
IN01B11-13-38A
IN01B11-34-40A
MC01B07-11 CRASH A
PERSONNEL SAFETY SYSTEM
K1S1
K2S1
MC01B07-11 CRASH B
IN01B11-34-41A
IN01B11-25-35A
CONTROL ROOM CRASH
IN01B11-25K5
1-TP-1E5
2-TP-1H4
IN01B11-31-39A
IN01B11-34-42A
H.V CASE MICROSWITCHES MICROSWITCH
IN01B11-34-43A
IN01B11-25-42A
H.V. CAGE DOOR MICROSWITCHES
IN01B11-25K6
1-TP-1E3
2-TP-1G4
IN01B11-31-40A
IN01B11-26-31A
CAPTURE H2O
IN01B11-26K5
COIL I0026E01-1C8
IN01B11-26-29A
IN01B11-26-38A
IN01B11-26K6S1
CAPTURE VACUUM
COIL I0024E01-1F6
IN01B11-26-36A
IN01B11-26-49A
CAPTURE H_2O/VAC OK
IN01B11-26K7
1-TP-1G8
2-NOT USED
IN01B11-35-41A
IN01B11-26-45A
IN01B11-26K7S1
COIL TP-1G6
PERMISSIVE TO CAPTRUE HPA
IN01B11-35-42A
IN01B11-26-43A

NOT USED
IN01B11-18CB2
IN01B11-28-41A
IN01B11-25-27A
IN01B11-25K4S2
COIL I0030D01-1B3
IN01B11-25-25A
IN01B11-35-01A
IN01B11-11-01A
IN01B08-14-01A
SPARE (H.V. DROP SWITCH)
IN01B08-26 SLOT 9 CH #1
1A
1B
IN01B08-14-02A
IN01B11-11-02A
IN01B11-35-02A
IN01B11-29-41A
IN01B11-28-42A
IN01B11-25-34A
IN01B11-25K5S2
CRASH
COIL TP-1H6
IN01B11-25-32A
IN01B11-35-03A
IN01B11-11-03A
IN01B08-14-03A
CRASH BUTTON
IN01B08-26 SLOT 9 CH #2
2A
2B
IN01B08-14-04A
IN01B11-11-04A
IN01B11-35-04A
IN01B11-29-42A
IN01B11-25-32B
TO PRINT # V0007D01 B4
TO PGUN SPECIFIC INTERLOCKS
IN01B11-28-43A
IN01B11-25-41A
IN01B11-25K6S2
COIL TP-1G6
IN01B11-25-39A
IN01B11-35-05A
IN01B11-11-05A
IN01B08-14-05A
CAGE MICROSWITCH
IN01B08-26 SLOT 9 CH #3
3A
3B
IN01B08-14-06A
IN01B11-11-06A
IN01B11-35-06A
IN01B11-29-43A
IN01B11-28-26B
IN01B11-42-19A
IN01A15-37-19
C OUT MICROSWITCH
APERTURE #1
IN01A15-37-24
C
IN01B11-42-24A
IN01B11-36-09A
IN01B08-12-09A
IN01B08-15-09A
AP #1 OUT MICROSWITCH
IN01B08-26 SLOT 10 CH #5
5A
5B
IN01B08-15-10A
IN01B08-12-10A
IN01B11-36-10A
IN01B11-29-23A
IN01B11-28-50A
IN01B11-25-48A
IN01B11-25K7S2
IN01B11-25-46A
IN01B11-36-07A
IN01B08-12-07A
IN01B08-15-07A
CHOPPER/BUNCHER OVEN TEMP.
IN01B08-26 SLOT 10 CH #4
4A
4B
IN01B08-15-08A
IN01B08-12-08A
IN01B11-36-08A
IN01B11-29-24A
IN01B14-33-06
TO TP15A
TO FSD INTERFACE BOARD IN01B08 SLOT 8
COIL I0032D01-1A2

+24VDC
IN01B11-18CB6
IN01B11-31-41A
IN01B11-19-03A
IN01B11-19K1
AP1
COIL I0026E01-1H8
IN01B11-19-01A
IN01B11-19-10A
IN01B11-19K2
AP2
COIL I0026E01-1G8
IN01B11-19-08A
IN01B11-19-31A
IN01B11-19K5
COIL I0026E01-1E8
100KeV BEAM DUMP
IN01B11-19-29A
IN01B11-20-24A
IN01B11-20K4
AP3
COIL I0026E01-1A8
IN01B11-20-22A
IN01B11-20-38A
IN01B11-20K6
AP4
COIL I0026E01-2G8
IN01B11-20-36A
IN01B11-20-45A
IN01B11-20K7
500KeV BEAM DUMP
COIL I0026E01-2G8
IN01B11-20-43A
IN01B11-20-17A
IN01B11-20K3
COIL I0026E01-1B8
CHOPPING APERTURE
MASTER SLIT AND PLUG
IN01B11-20-15A
IN01B11-21-38A
IN01B11-21K6
5MeV FC
COIL I0026E01-2B8
IN01B11-21-36A
IN01B11-21-03A
IN01B11-21K1
100KeV FC
COIL I0026E01-2F8
IN01B11-21-01A
IN01B11-20-31A
IN01B11-20K5
CA VARIABLE SLITS
COIL I0026E01-2H8
IN01B11-20-29A
IN01B11-21-24A
IN01B11-21K4
COIL I0026E01-2D8
45MEV INSERTABLE DUMP
IN01B11-21-22A
IN01B11-21-31A
IN01B11-21K5
45MEV SPEC
COIL I0026E01-2C8
IN01B11-21-29A
IN01B11-27-07A
IN01B11-27K1
2-0
BEAM H_2O SUM
1-TP-1C5
2-NOT USED
IN01B11-31-42A
IN01B11-25-38A
IN01B11-25K6S1
CAGE MICROSWITCH
COIL TP-1G6
IN01B11-25-36A
IN01B11-22-03A
IN01B11-22K1
BVOI01
COIL I0027E01-1H5
IN01B11-22-01A
IN01B11-22-10A
IN01B11-22K2
BVOI01
COIL I0027E01-1G5
IN01B11-22-09A
IN01B11-27-14A
IN01B11-27K2
2-0
TGUN_INTLK
I0030D01-1C4
2-NOT USED
IN01B11-31-43A
IN01B11-25-03A
IN01B11-25K1
DIGITEL #7
COIL I0024E01-1C5
IN01B11-25-01A
IN01B11-25-10A
IN01B11-25K2
DIGITEL #8
COIL I0024E01-1C5
IN01B11-25-08A
IN01B11-24-03A
IN01B11-24K1
GUN VACUUM
COIL I0024E01-1G6
IN01B11-24-01A
IN01B11-24-10A
IN01B11-24K2
A1, CHOPPER CHAMBER
COIL I0024E01-1F6
IN01B11-24-08A
IN01B11-24-17A
IN01B11-24K3
CAPTURE VACUUM
COIL I0024E01-1F6
IN01B11-24-15A
IN01B11-24-24A
IN01B11-24K4
1/4 CRYO VAC(IN02)
COIL I0024E01-1E6
IN01B11-24-22A
IN01B11-24-31A
IN01B11-24K5
UPSTRM IN03VAC
COIL I0024E01-1E6
IN01B11-24-29A
IN01B11-24-38A
IN01B11-24K6
DNSTRM IN04VAC
COIL I0024E01-1D6
IN01B11-24-36A
IN01B11-27-21A
IN01B11-27K3
2-0
VACUUM SUM
1-TP-1C4
2-NOT USED
IN01B11-31-44A
IN01B10-34-03A
IN01B10-34K1
BV0R07
COIL I0027E01-1D1
IN01B10-34-01A
IN01B11-22-17A
IN01B11-22K3
BV0I07
COIL I0027E01-1F5
IN01B11-22-15A
IN01B11-22-31A
IN01B11-22K5
BV1D00
COIL I0027E01-1E5
IN01B11-22-29A
IN01B11-22-45A
IN01B11-22K7
BV0L01B
COIL I0027E01-1D5
IN01B11-22-43A
IN01B11-23-10A
IN01B11-23K2
BV0L03A
COIL I0027E01-1C5
IN01B11-23-08A
IN01B11-23-24A
IN01B11-23K4
BV0L06B
COIL I0027E01-1B5
IN01B10-36-03A
IN01B11-23-22A
IN01B10-36K1
BV2D00
COIL I0027E01-1G1
IN01B10-36-01A
IN01B10-36-17A
IN01B10-36K3
BV4D00
COIL I0027E01-1F1
IN01B10-36-15A
IN01B11-27-28A
IN01B11-27K4
2-0
VALVES OPEN
1-TP-1C3
2-NOT USED
IN01B11-31-48A
IN01B10-34-10A
IN01B10-34K2
BV0R07
COIL I0027E01-1D1
IN01B10-34-09A
IN01B11-22-24A
IN01B11-22K4
BV0I07
COIL I0027E01-1F5
IN01B11-22-23A
IN01B11-22-38A
IN01B11-22K6
BV1D00
COIL I0027E01-1D5
IN01B11-22-37A
IN01B11-23-03A
IN01B11-23K1
BV0L01B
COIL I0027E01-1C5
IN01B11-23-02A
IN01B11-23-17A
IN01B11-23K3
BV0L03A
COIL I0027E01-1B5
IN01B11-23-16A
IN01B11-23-31A
IN01B11-23K5
BV0L06B
COIL I0027E01-1A5
IN01B10-36-10A
IN01B11-23-30A
IN01B10-36K2
BV2D00
COIL I0027E01-1G1
IN01B10-36-09A
IN01B10-36-24A
IN01B10-36K4
BV4D00
COIL I0027E01-1E1
IN01B10-36-23A
IN01B11-23-42A
IN01B11-23K6
2-0
VALVES NOT CLOSED
1-TP-1C2
2-NOT USED
TO TP1C4
IN01B11-31-45A
IN01B11-27-03A
IN01B11-27K1
H_2O SUM
COIL TP-1F2
IN01B11-27-01A
IN01B11-27-17A
IN01B11-27K3
VACUUM SUM
COIL TP-1E2
IN01B11-27-15A
IN01B11-27-24A
IN01B11-27K4
VALVES OPEN SUM
COIL TP-1D2
IN01B11-27-22A
IN01B11-23-38A
IN01B11-23K6
VALVES NOT CLOSED SUM
COIL TP-1D2
IN01B11-23-36A
IN01B11-27-35A
IN01B11-27K5
2-2
PERSONNEL SAFETY SYSTEM
INJECTOR READY
1-I0033D01-1C1
1-I0033D01-1B1
IN01B10-36K5
2-0
GLOBAL H.V. ENABLE
1-TP-1E8
2-NOT USED
IN01B10-36-35A
IN01B11-27-35B

24VDC
IN01B11-21-08A
IN01B11-21K2
45MeV SPEC MAGNET
H_2O FLOW
COIL I0026E01-2E8
IN01B11-21-10A
IN01B11-31-42B
IN01B11-21-17A
IN01B11-21K3
45MeV POWER SUPPLY
H_2O FLOW
COIL I0026E01-2E8
IN01B11-21-15A
IN01B11-31-14A
IN01B10-31K2
1-TP-1B5
2-NOT USED
2-2
IN02B27-45
#1
#2
PART OF 45MeV SPEC. MAGNET P.S.
24VDC
ISOLATED BNC
J100
45 MeV SPEC MAGNET INTLK SUM #1 INDICATOR
IN01B11-35-44A
IN01B10-31-10A
IN01B10-31K2
COIL TP-1A6
IN01B11-35-45A
IN01B10-31-08A
45 MeV SPEC MAGNET INTLK SUM #2 CONTACTOR
IN01B10-39-49A
IN01B10-31-13A
IN01B11-31-K2
S2
IN01B10-39-50A
IN01B10-31-11A
CONTROL ROOM CRASH
IN01B11-27-10A
IN01B11-25K5
IN01B11-25-29A
IN01B11-25-31A
IN01B11-38-47A
J-7
INJ. HI-VOLTAGE SWITCH INTERFACE CHASSIS
TGUN_INTLK 27K2
THERMIONIC GUN INTERLOCKS
IN01B08-SLOT 8A
IN01B11-38-48A
B
DWG# C0585D01
IN01B10-36K5
GLOBAL H.V. ENABLE
IN01B10-36-29A
A
J-5
INJ. HI-VOLTAGE SWITCH INTERFACE CHASSIS
GLOBAL H.V. ENABLE
IN01B10-36-31A
B

DETAIL A
IN01B10-36-29A
IN01B11-31-24B
IN01B10-31-24A
IN01B10-31-17A
IN01B10-31K4
COIL TP-1B3
N/O
IN01B10-31K3
COIL TP-1B4
N/O
IN01B10-31-22A
IN01B10-31-15A
DUMP OUT MAKE UP
DUMP IN MAKE UP
IN01B10-31-20A
IN01B10-31-27A
IN01B10-31K3
COIL TP-1B4
N/C
IN01B10-31K4
COIL TP-1B3
N/C
IN01B10-25-19B
IN01B11-25-31A
IN01B10-31-19A
IN01B10-31-26A
TO FSD INTERFACE BOARD
IN01B08-SLOT 8
TO TP11F
IN01B11-29-24B

24 VDC TO TP1D8
IN01B10-31-48B
IN01B10-39-01A
IN01B10-39-01B
IN01B10-39-03A
DUMP IN
DUMP OUT
RETRACTABLE DUMP MICRO SWITCHES
IN01B10-39-02A
IN01B10-39-04A
IN01B10-31-21A
IN01B10-31-28A
IN01B10-31-K3
1-TP-1B4
2-TP-1B5
IN01B10-31-K4
1-TP-1B5
2-TP-1B4
IN01B10-31-21B
IN01B10-31-28B
IN01B10-31-35A
IN01B10-31-42A
IN01B10-31-K5
1-TP-1K3
2-NOT USED
IN01B10-31-K6
1-TP-1B3
2-NOT USED

IN01B10-39-08A
IN01B10-31-29A
IN01B10-31K5S1
COIL-TP-1A4
PRINT #22661-E-0198 SHEET 2-B5
ANNUNCIATION
DUMP IN
IN01B10-31-31A
IN01B10-39-06A
IN01B10-39-09A
IN01B10-39-36A
IN01B10-31K6S1
COIL-TP-1A3
PRINT #22661-E-0198-SHEET 2-B5
ANNUNCIATION
DUMP OUT
IN01B10-31-38A
IN01B10-39-07A

REV.	REMARKS	DRAWN	DATE	APPVD
H	ECO # E0629	MG	11/98	EAW
G	ECO # E0266	MG	10/96	RRL
F	ECO # E0213	MG	5/95	RRL
E	ECO # E0188	MG	8/94	RRL
D	ECO # E0134	LB-C	10/92	RRL
C	ECO # E0121	LAC	7/92	RRL
B	ECO # E0098	FW	12/91	RRL
A	ECO # E0078	LAC	7/91	RRL

REV.	REMARKS	DRAWN	DATE	APPVD
J	ECO # E0864	KSR		

TITLE: INJECTOR INTERLOCK SUMS SYSTEM PRINT
DRAWN: F. WILLIAMS 2/11/91
CHECKED: R. LAUZE' 4/4/91
APPROVED: R. LAUZE' 4/4/91
ENGINEER: R. LAUZE'
SCALE:
CAD I.D. NO.: fs2/pol source I0031E01
SIZE: E
DRAWING NO.: I0031E01
SHOWN ON
SHEET 1 OF 1
CEBAF
The Continuous Electron Beam Accelerator Facility
NEWPORT NEWS, VIRGINIA
UNITED STATES DEPARTMENT OF ENERGY