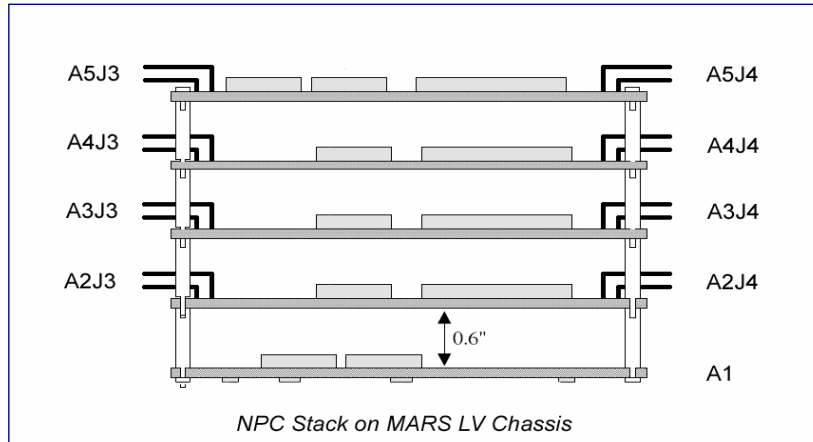


MARS NPC Wiring List



BM Bus Monitor
 IDC Internal DC/DC Converter
 ILC Internal Load Control
 NPC Node Power Controller
 XDC External DC/DC Converter
 XLC-A External Load Control A
 XLC-B External Load Control B
 XLF External Load Filter

DIGITAL OUTPUTS			NORM./ACT.	NORM./ACT.						
I/O #	DESCRIPTION	DEVICE	DEVICE STATE	SIGNAL STATE	Harness	DB Conn	Pin	Header	Channel	Pin
DO01	400V Ext Load Control 1	XLC A	open		W2	A6J11	17	A2J4	B5	11
DO02	400V Ext Load Control 2	XLC A	open		W2	A6J11	16	A2J4	B7	9
DO03	400V Ext Load Control 3	XLC A	open		W2	A6J11	15	A2J4	A1	7
DO04	400V Ext Load Control 4	XLC A	open		W2	A6J11	14	A2J4	A3	5
DO05	400V Ext Load Control 5	XLC B	open		W2	A7J11	17	A3J4	B5	11
DO06	400V Ext Load Control 6	XLC B	open		W2	A7J11	16	A3J4	B7	9
DO07	400V Ext Load Control 7	XLC B	open		W2	A7J11	15	A3J4	A1	7
DO08	400V Ext Load Control 8	XLC B	open		W2	A7J11	14	A3J4	A3	5
DO09	400V Ext Load Deadface 1	XLC A	closed		W2	A6J11	24	A2J4	A7	1
DO10	400V Ext Load Deadface 2	XLC A	closed		W2	A6J11	12	A2J4	A6	2
DO11	400V Ext Load Deadface 3	XLC A	closed		W2	A6J11	25	A2J4	A5	3
DO12	400V Ext Load Deadface 4	XLC A	closed		W2	A6J11	13	A2J4	A4	4
DO13	400V Ext Load Deadface 5	XLC B	closed		W2	A7J11	24	A3J4	A7	1
DO14	400V Ext Load Deadface 6	XLC B	closed		W2	A7J11	12	A3J4	A6	2
DO15	400V Ext Load Deadface 7	XLC B	closed		W2	A7J11	25	A3J4	A5	3
DO16	400V Ext Load Deadface 8	XLC B	closed		W2	A7J11	13	A3J4	A4	4
DO17	48V Ext Load Control 1	XLC A	open		W2	A6J11	21	A2J4	B4	12
DO18	48V Ext Load Control 2	XLC A	open		W2	A6J11	20	A2J4	B6	10
DO19	48V Ext Load Control 3	XLC A	open		W2	A6J11	19	A2J4	A0	8
DO20	48V Ext Load Control 4	XLC A	open		W2	A6J11	18	A2J4	A2	6
DO21	48V Ext Load Control 5	XLC B	open		W2	A7J11	21	A3J4	B4	12
DO22	48V Ext Load Control 6	XLC B	open		W2	A7J11	20	A3J4	B6	10
DO23	48V Ext Load Control 7	XLC B	open		W2	A7J11	19	A3J4	A0	8
DO24	48V Ext Load Control 8	XLC B	open		W2	A7J11	18	A3J4	A2	6
DO25	48V Ext Load Deadface 1	XLC A	closed		W2	A6J11	22	A2J4	B3	13
DO26	48V Ext Load Deadface 2	XLC A	closed		W2	A6J11	10	A2J4	B2	14
DO27	48V Ext Load Deadface 3	XLC A	closed		W2	A6J11	23	A2J4	B1	15
DO28	48V Ext Load Deadface 4	XLC A	closed		W2	A6J11	11	A2J4	B0	16
DO29	48V Ext Load Deadface 5	XLC B	closed		W2	A7J11	22	A3J4	B3	13
DO30	48V Ext Load Deadface 6	XLC B	closed		W2	A7J11	10	A3J4	B2	14
DO31	48V Ext Load Deadface 7	XLC B	closed		W2	A7J11	23	A3J4	B1	15
DO32	48V Ext Load Deadface 8	XLC B	closed		W2	A7J11	11	A3J4	B0	16

DIGITAL INPUTS					Harness	DB Conn	Pin			
I/O #	DESCRIPTION	DEVICE	NORM/ACT DEVICE STATE	NORM/ACT VOLT. STATE				Header	Channel	Pin
DO33	Int Load Control 1	ILC	open		W2	A8J2	9	A2J4	C0	24
DO34	Int Load Control 2	ILC	open		W2	A8J2	4	A2J4	C1	23
DO35	Int Load Control 3	ILC	open		W2	A8J2	8	A2J4	C2	22
DO36	Int Load Control 4	ILC	open		W2	A8J2	3	A2J4	C3	21
DO37	Int Load Control 5	ILC	open		W2	A8J2	7	A2J4	C4	20
DO38	Int Load Control 6	ILC	open		W2	A8J2	2	A2J4	C5	19
DO39	Int Load Control 7	ILC	open		W2	A8J2	6	A2J4	C6	18
DO40	Int Load Control 8	ILC	open		W2	A8J2	1	A2J4	C7	17
DO41	Int Load Control 9	ILC	open		W2	A8J5	1	A3J4	C0	24
DO42	Int Load Control 10	ILC	open		W2	A8J5	6	A3J4	C1	23
DO43	Int Load Control 11	ILC	open		W2	A8J5	2	A3J4	C2	22
DO44	Int Load Control 12	ILC	open		W2	A8J5	7	A3J4	C3	21
DO45	Int Load Control 13	ILC	open		W2	A8J5	3	A3J4	C4	20
DO46	Int Load Control 14	ILC	open		W2	A8J5	8	A3J4	C5	19
DO47	Int Load Control 15	ILC	open		W2	A8J5	4	A3J4	C6	18
DO48	Int Load Control 16	ILC	open		W2	A8J5	9	A3J4	C7	17
DO49	Ground Fault 400V	BMC	low		W3	A9J1	5	A4J4	A0	8
DO50	Ground Fault 400 Com	BMC	low		W3	A9J1	4	A4J4	A1	7
DO51	Ground Fault 48V	BMC	low		W3	A9J1	3	A4J4	A2	6
DO52	Ground Fault 48 Com	BMC	low		W3	A9J1	2	A4J4	A3	5
DO53	Ground Fault Test	BMC	low		W3	A9J1	1	A4J4	A4	4
DO54										
DO55										
DO56										
DI00	MV Converter A Status		LOW/HIGH	TTL	W2	A13J3	3	A5J4	A0	8
DI01	SPARE (old MV B Status)	still wired to MV connector				A13J3	4	A5J4	A1	7
DI02	MV Converter A Fault Status		LOW/HIGH	TTL	W2	A13J3	1	A5J4	A2	6
DI03	SPARE (old MV B Fault Status)	still wired to MV connector				A13J3	2	A5J4	A3	5
DI04									A4	4
DI05									A5	3
DI06									A6	2
DI07									A7	1
DI08	400V circuit breaker trip 1		LOW/HIGH	TTL	W2	A6J11	5	A5J4	B0	16
DI09	400V circuit breaker trip 2		LOW/HIGH	TTL	W2	A6J11	4	A5J4	B1	15
DI10	400V circuit breaker trip 3		LOW/HIGH	TTL	W2	A6J11	3	A5J4	B2	14
DI11	400V circuit breaker trip 4		LOW/HIGH	TTL	W2	A6J11	2	A5J4	B3	13
DI12	400V circuit breaker trip 5		LOW/HIGH	TTL	W2	A7J11	5	A5J4	B4	12
DI13	400V circuit breaker trip 6		LOW/HIGH	TTL	W2	A7J11	4	A5J4	B5	11
DI14	400V circuit breaker trip 7		LOW/HIGH	TTL	W2	A7J11	3	A5J4	B6	10
DI15	400V circuit breaker trip 8		LOW/HIGH	TTL	W2	A7J11	2	A5J4	B7	9
DI16	48V circuit breaker trip 1		LOW/HIGH	TTL	W2	A6J11	9	A5J4	C0	24
DI17	48V circuit breaker trip 2		LOW/HIGH	TTL	W2	A6J11	8	A5J4	C1	23
DI18	48V circuit breaker trip 3		LOW/HIGH	TTL	W2	A6J11	7	A5J4	C2	22
DI19	48V circuit breaker trip 4		LOW/HIGH	TTL	W2	A6J11	6	A5J4	C3	21
DI20	48V circuit breaker trip 5		LOW/HIGH	TTL	W2	A7J11	9	A5J4	C4	20
DI21	48V circuit breaker trip 6		LOW/HIGH	TTL	W2	A7J11	8	A5J4	C5	19
DI22	48V circuit breaker trip 7		LOW/HIGH	TTL	W2	A7J11	7	A5J4	C6	18
DI23	48V circuit breaker trip 8		LOW/HIGH	TTL	W2	A7J11	6	A5J4	C7	17

ANALOG INPUTS					Harness	DB Conn	Pin	OLD			NEW		
I/O #	DESCRIPTION	DEVICE	NORM/ACT DEVICE STATE	NORM/ACT VOLT. STATE				Header	Channel	Pin	Header	Channel	Pin
AI01	400 VDC Ext Load Current 1	XLC-A	0-25A	0-2.5V	W1	A6J9	3	A2J3	0	3	A2J3	0	3
AI02	400 VDC Ext Load Current 2	XLC-A	0-25A	0-2.5V	W1	A6J9	8	A2J3	1	5	A2J3	1	5
AI03	400 VDC Ext Load Current 3	XLC-A	0-25A	0-2.5V	W1	A6J9	4	A2J3	2	7	A2J3	2	7
AI04	400 VDC Ext Load Current 4	XLC-A	0-25A	0-2.5V	W1	A6J9	9	A2J3	3	9	A2J3	3	9
AI05	400 VDC Ext Load Current 5	XLC-B	0-25A	0-2.5V	W1	A7J9	3	A2J3	4	11	A2J3	4	11
AI06	400 VDC Ext Load Current 6	XLC-B	0-25A	0-2.5V	W1	A7J9	8	A2J3	5	13	A2J3	5	13
AI07	400 VDC Ext Load Current 7	XLC-B	0-25A	0-2.5V	W1	A7J9	4	A2J3	6	15	A2J3	6	15
AI08	400 VDC Ext Load Current 8	XLC-B	0-25A	0-2.5V	W1	A7J9	9	A2J3	7	17	A2J3	7	17
AI09	48 VDC Ext Load Current 1	XLC-A	0-25A	0-2.5V	W1	A6J9	1	A2J3	8	19	A2J3	8	19
AI10	48 VDC Ext Load Current 2	XLC-A	0-25A	0-2.5V	W1	A6J9	6	A2J3	9	21	A2J3	9	21
AI11	48 VDC Ext Load Current 3	XLC-A	0-25A	0-2.5V	W1	A6J9	2	A2J3	10	23	A2J3	10	23
AI12	48 VDC Ext Load Current 4	XLC-A	0-25A	0-2.5V	W1	A6J9	7	A2J3	11	25	A2J3	11	25
AI13	48 VDC Ext Load Current 5	XLC-B	0-25A	0-2.5V	W1	A7J9	1	A2J3	12	27	A2J3	12	27
AI14	48 VDC Ext Load Current 6	XLC-B	0-25A	0-2.5V	W1	A7J9	6	A2J3	13	29	A2J3	13	29
AI15	48 VDC Ext Load Current 7	XLC-B	0-25A	0-2.5V	W1	A7J9	2	A2J3	14	31	A2J3	14	31
AI16	48 VDC Ext Load Current 8	XLC-B	0-25A	0-2.5V	W1	A7J9	7	A2J3	15	33	A2J3	15	33
AI17	Int Load Current 1	ILC	0-5A	0-2.5V	W1	A8J1	9	A2J3	16	4	A3J3	0	3
AI18	Int Load Current 2	ILC	0-5A	0-2.5V	W1	A8J1	4	A2J3	17	6	A3J3	1	5
AI19	Int Load Current 3	ILC	0-25A	0-2.5V	W1	A8J1	8	A2J3	18	8	A3J3	2	7
AI20	Int Load Current 4	ILC	0-25A	0-2.5V	W1	A8J1	3	A2J3	19	10	A3J3	3	9
AI21	Int Load Current 5	ILC	0-5A	0-2.5V	W1	A8J1	7	A2J3	20	12	A3J3	4	11
AI22	Int Load Current 6	ILC	0-5A	0-2.5V	W1	A8J1	2	A2J3	21	14	A3J3	5	13
AI23	Int Load Current 7	ILC	0-5A	0-2.5V	W1	A8J1	6	A2J3	22	16	A3J3	6	15
AI24	Int Load Current 8	ILC	0-5A	0-2.5V	W1	A8J1	1	A2J3	23	18	A3J3	7	17
AI25	Int Load Current 9	ILC	0-5A	0-2.5V	W1	A8J4	9	A2J3	24	20	A3J3	8	19
AI26	Int Load Current 10	ILC	0-5A	0-2.5V	W1	A8J4	4	A2J3	25	22	A3J3	9	21
AI27	Int Load Current 11	ILC	0-5A	0-2.5V	W1	A8J4	8	A2J3	26	24	A3J3	10	23
AI28	Int Load Current 12	ILC	0-5A	0-2.5V	W1	A8J4	3	A2J3	27	26	A3J3	11	25
AI29	Int Load Current 13	ILC	0-5A	0-2.5V	W1	A8J4	7	A2J3	28	28	A3J3	12	27
AI30	Int Load Current 14	ILC	0-5A	0-2.5V	W1	A8J4	2	A2J3	29	30	A3J3	13	29
AI31	Int Load Current 15	ILC	0-5A	0-2.5V	W1	A8J4	6	A2J3	30	32	A3J3	14	31
AI32	Int Load Current 16	ILC	0-5A	0-2.5V	W1	A8J4	1	A2J3	31	34	A3J3	15	33
AI33	400V voltage	Bus Monitor	0-400 VDC	4V	W1	A9J2	3	A3J3	0	3	A4J3	0	3
AI34	400V current	Bus Monitor	0-25A	0-2.5V	W1	A9J2	7	A3J3	1	5	A4J3	1	5
AI35	48V Ext voltage	Bus Monitor	0-48 VDC	4V	W1	A9J2	2	A3J3	2	7	A4J3	2	7
AI36	48V Ext current	Bus Monitor	0-25A	0-2.5V	W1	A9J2	5	A3J3	3	9	A4J3	3	9
AI37	Ground Fault Current	Bus Monitor	2.5V	0-5V	W1	A9J2	4	A3J3	4	11	A4J3	4	11
AI38	48V int voltage	IDC	0-48 VDC	4V	W1	A10J1	7	A3J3	5	13	A4J3	5	13
AI39	12V Int voltage	IDC	0-12 VDC	4V	W1	A10J1	6	A3J3	6	15	A4J3	6	15
AI40	5V int voltage	IDC	0-5 VDC	4V	W1	A10J1	8	A3J3	7	17	A4J3	7	17
AI41	-12V Int voltage	IDC	-12-0 VDC	4V	W1	A10J1	9	A3J3	8	19	A4J3	8	19
AI42	MV voltage	MV eng sensor	0-10k VDC	0-5 VDC	W1	A13J2	1	A3J3	9	21	A5J3	0	3
AI43	MV current	MV eng sensor	0-20 A	0-5 VDC	W1	A13J2	2	A3J3	10	23	A5J3	1	5
AI44	MV spare	still wired to MV connector			W1	A13J2	3	A3J3	11	25	A5J3	2	7
AI45	MV Converter A Group 1	MV eng sensor			W1	A13J2	4	A3J3	12	27	-	-	-
AI46	MV Converter A Group 2	MV eng sensor			W1	A13J2	5	A3J3	13	29	-	-	-
AI47	MV Converter A Group 3	MV eng sensor			W1	A13J2	6	A3J3	14	31	-	-	-
AI48	MV Converter A Group 4	MV eng sensor			W1	A13J2	7	A3J3	15	33	-	-	-
AI49	MV Converter A Group 5	MV eng sensor			W1	A13J2	8	A3J3	16	4	-	-	-
AI50	MV Converter A Group 6	MV eng sensor			W1	A13J2	9	A3J3	17	6	-	-	-
AI51	SPARE (old MV Converter B Group 1)				W1	A13J2	10	A3J3	18	8	-	-	-
AI52	SPARE (old MV Converter B Group 2)				W1	A13J2	11	A3J3	19	10	-	-	-
AI53	SPARE (old MV Converter B Group 3)				W1	A13J2	12	A3J3	20	12	-	-	-
AI54	SPARE (old MV Converter B Group 4)				W1	A13J2	13	A3J3	21	14	-	-	-
AI55	SPARE (old MV Converter B Group 5)				W1	A13J2	14	A3J3	22	16	-	-	-
AI56	SPARE (old MV Converter B Group 6)				W1	A13J2	15	A3J3	23	18	-	-	-
AI57	Grounded input	BM Grd				A3J3	20	A3J3	24	20	-	-	-
AI58	Grounded input	ILC Grd				A3J3	22	A3J3	25	22	-	-	-
AI59	Grounded input	IDC Grd				A3J3	24	A3J3	26	24	-	-	-
AI60	Grounded input	XLCA Grd				A3J3	26	A3J3	27	26	-	-	-
AI61	Grounded input	XLCA Grd				A3J3	28	A3J3	28	28	-	-	-
AI62	Grounded input	IDC Grd				A3J3	30	A3J3	29	30	-	-	-
AI63	Grounded input (old Temp NE Laser East)	IDC Grd				A3J3	32	A3J3	30	32	-	-	-
AI64	Grounded input (old Temp NE Laser West)	IDC Grd				A3J3	34	A3J3	31	34	-	-	-

ANALOG INPUTS								OLD			NEW		
I/O #	DESCRIPTION	DEVICE	NORM/ACT DEVICE STATE	NORM/ACT VOLT. STATE	Harness	DB Conn	Pin	Header	Channel	Pin	Header	Channel	Pin
AI65	CH0+ LV Fluid Pressure	LV - Xdcr			W1	Xdcr	1	A4J3	0	3	A5J3	3	9
AI66	CH1+ Temp XLC-A	LV - XLC-A	-	10mV / 1°C	W1	A6J9	5	A4J3	1	5	A4J3	9	21
AI67	CH2+ Temp XLC-B	LV - XLC-B	-	10mV / 1°C	W1	A7J9	5	A4J3	2	7	A4J3	10	23
AI68	CH3+ Temp ILC	LV - ILC	-	10mV / 1°C	W1	A8J1	5	A4J3	3	9	A4J3	11	25
AI69	CH4+ Temp BM	LV - BM	-	10mV / 1°C	W1	A9J2	1	A4J3	4	11	A4J3	12	27
AI70	CH5+ Temp IDC	LV - IDC	-	10mV / 1°C	W1	A10J1	1	A4J3	5	13	A4J3	13	29
AI71	CH6+ Temp Cisco Sea1	LV - Cisco Sea 1	-	10mV / 1°C	W1	A13J7	-	A4J3	6	15	A4J3	14	31
AI72	CH7+ Temp Cisco Sea2	LV - Cisco Sea 2	-	10mV / 1°C	W1	A13J7	-	A4J3	7	17	A4J3	15	33
AI73	CH8+ DCS- Relative Humidity	DCS			W1	A13J5	1	A4J3	8	19	A5J3	4	11
AI74	CH9+ DCS- Temp NE Laser East	DCS	-	10mV / 1°C	W1	A13J5	2	A4J3	9	21	A5J3	5	13
AI75	CH10+ DCS- Temp NE Laser West	DCS	-	10mV / 1°C	W1	A13J5	3	A4J3	10	23	A5J3	6	15
AI76	CH11+ DCS- Temp Ambient Top	DCS	-	10mV / 1°C	W1	A13J5	4	A4J3	11	25	A5J3	7	17
AI77	CH12+ DCS- Temp Ambient Bottom	DCS	-	10mV / 1°C	W1	A13J5	5	A4J3	12	27	A5J3	-	-
AI78	CH13+ DCS- SPARE	DCS	-	10mV / 1°C	W1	A13J5	6	A4J3	13	29	A5J3	-	-
AI79	CH14+ DCS- Temp OE Converter East	DCS	-	10mV / 1°C	W1	A13J5	7	A4J3	14	31	A5J3	8	19
AI80	CH15+ DCS- Temp OE Converter West	DCS	-	10mV / 1°C	W1	A13J5	8	A4J3	15	33	A5J3	9	21
	CH0-	IDC			G			A4J3	16	4			
	CH1-	IDC			G			A4J3	17	6			
	CH2-	IDC			G			A4J3	18	8			
	CH3-	IDC			G			A4J3	19	10			
	CH4-	IDC			G			A4J3	20	12			
	CH5-	IDC			G			A4J3	21	14			
	CH6-	IDC			G			A4J3	22	16			
	CH7-	IDC			G			A4J3	23	18			
	CH8-	IDC			G			A4J3	24	20			
	CH9-	IDC			G			A4J3	25	22			
	CH10-	IDC			G			A4J3	26	24			
	CH11-	IDC			G			A4J3	27	26			
	CH12-	IDC			G			A4J3	28	28			
	CH13-	IDC			G			A4J3	29	30			
	CH14-	IDC			G			A4J3	30	32			
	CH15-	IDC			G			A4J3	31	34			
AI81	CH0+ MV Pressure	MV	-	-		A13J2	16	A5J3	0	3	A5J3	0	3
AI82	CH1+ MV Temp 1	MV	-	-		A13J2	17	A5J3	1	5	-	-	-
AI83	CH2+ MV Temp 2	MV	-	-		A13J2	18	A5J3	2	7	-	-	-
AI84	CH3+ MV Temp 3	MV	-	-		A13J2	19	A5J3	3	9	-	-	-
AI85	CH4+ MV Temp 4	MV	-	-		A13J2	20	A5J3	4	11	-	-	-
AI86	CH5+ MV Temp 5	MV	-	-		A13J2	21	A5J3	5	13	-	-	-
AI87	CH6+ MV Temp 6	MV	-	-		A13J2	22	A5J3	6	15	-	-	-
AI88	CH7+ MV Temp 7	MV	-	-		A13J14	7	A5J3	7	17	-	-	-
AI89	CH8+ MV Temp 8	MV	-	-		A13J14	8	A5J3	8	19	-	-	-
AI90	CH9+ MV 400 Voltage	MV	-	-		A13J14	1	A5J3	9	21	A5J3	1	5
AI91	CH10+ MV 400 Current	MV	-	-		A13J14	2	A5J3	10	23	A5J3	2	7
AI92	CH11+ SPARE (old MV 400V B)	MV	-	future ground reference		A13J14	3	A5J3	11	25	A5J3	-	4
AI93	CH12+ SPARE (old MV 400I B)	MV	-	future ground reference		A13J14	4	A5J3	12	27	A5J3	-	6
AI94	CH13+ SPARE	MV	-	future ground reference		A13J14	5	A5J3	13	29	A5J3	-	8
AI95	CH14+ SPARE	MV	-	-		A13J14	6	A5J3	14	31	-	-	-
AI96	CH15+ SPARE	MV	-	-		A13J14	7	A5J3	15	33	-	-	-
	CH0-	IDC			G			A5J3	16	4	-	-	-
	CH1-	IDC			G			A5J3	17	6			
	CH2-	IDC			G			A5J3	18	8			
	CH3-	IDC			G			A5J3	19	10			
	CH4-	IDC			G			A5J3	20	12			
	CH5-	IDC			G			A5J3	21	14			
	CH6-	IDC			G			A5J3	22	16			
	CH7-	IDC			G			A5J3	23	18			
	CH8-	IDC			G			A5J3	24	20			
	CH9-	IDC			G			A5J3	25	22			
	CH10-	IDC			G			A5J3	26	24			
	CH11-	IDC			G			A5J3	27	26			
	CH12-	IDC			G			A5J3	28	28			
	CH13-	IDC			G			A5J3	29	30			
	CH14-	IDC			G			A5J3	30	32			
	CH15-	IDC			G			A5J3	31	34			

ANALOG INPUTS Ground Connections								NEW		
A/D Board & Channel #	DESCRIPTION	Connect to Device						Header	Channel	Pin
A5_CH10+	Grounded Spare Input	IDC						A5J3	10	23
A5_CH11+	Grounded Spare Input	IDC						A5J3	11	25
A5_CH12+	Grounded Spare Input	IDC						A5J3	12	27
A5_CH13+	Grounded Spare Input	IDC						A5J3	13	29
A5_CH14+	Grounded Spare Input	IDC						A5J3	14	31
A5_CH15+	Grounded Spare Input	IDC						A5J3	15	33
A2_CH0-	400 VDC Ext Load Current 1	XLC-A						A2J3	-	4
A2_CH1-	400 VDC Ext Load Current 2	XLC-A						A2J3	-	6
A2_CH2-	400 VDC Ext Load Current 3	XLC-A						A2J3	-	8
A2_CH3-	400 VDC Ext Load Current 4	XLC-A						A2J3	-	10
A2_CH4-	400 VDC Ext Load Current 5	XLC-B						A2J3	-	12
A2_CH5-	400 VDC Ext Load Current 6	XLC-B						A2J3	-	14
A2_CH6-	400 VDC Ext Load Current 7	XLC-B						A2J3	-	16
A2_CH7-	400 VDC Ext Load Current 8	XLC-B						A2J3	-	18
A2_CH8-	48 VDC Ext Load Current 1	XLC-A						A2J3	-	20
A2_CH9-	48 VDC Ext Load Current 2	XLC-A						A2J3	-	22
A2_CH10-	48 VDC Ext Load Current 3	XLC-A						A2J3	-	24
A2_CH11-	48 VDC Ext Load Current 4	XLC-A						A2J3	-	26
A2_CH12-	48 VDC Ext Load Current 5	XLC-B						A2J3	-	28
A2_CH13-	48 VDC Ext Load Current 6	XLC-B						A2J3	-	30
A2_CH14-	48 VDC Ext Load Current 7	XLC-B						A2J3	-	32
A2_CH15-	48 VDC Ext Load Current 8	XLC-B						A2J3	-	34
A3_CH0-	Int Load Current 1	ILC						A3J3	-	4
A3_CH1-	Int Load Current 2	ILC						A3J3	-	6
A3_CH2-	Int Load Current 3	ILC						A3J3	-	8
A3_CH3-	Int Load Current 4	ILC						A3J3	-	10
A3_CH4-	Int Load Current 5	ILC						A3J3	-	12
A3_CH5-	Int Load Current 6	ILC						A3J3	-	14
A3_CH6-	Int Load Current 7	ILC						A3J3	-	16
A3_CH7-	Int Load Current 8	ILC						A3J3	-	18
A3_CH8-	Int Load Current 9	ILC						A3J3	-	20
A3_CH9-	Int Load Current 10	ILC						A3J3	-	22
A3_CH10-	Int Load Current 11	ILC						A3J3	-	24
A3_CH11-	Int Load Current 12	ILC						A3J3	-	26
A3_CH12-	Int Load Current 13	ILC						A3J3	-	28
A3_CH13-	Int Load Current 14	ILC						A3J3	-	30
A3_CH14-	Int Load Current 15	ILC						A3J3	-	32
A3_CH15-	Int Load Current 16	ILC						A3J3	-	34
A4_CH0-	400V voltage	BM						A4J3	-	4
A4_CH1-	400V current	BM						A4J3	-	6
A4_CH2-	48V Ext voltage	BM						A4J3	-	8
A4_CH3-	48V Ext current	BM						A4J3	-	10
A4_CH4-	Ground Fault Current	BM						A4J3	-	12
A4_CH5-	48V int voltage	IDC						A4J3	-	14
A4_CH6-	12V Int voltage	IDC						A4J3	-	16
A4_CH7-	5V int voltage	IDC						A4J3	-	18
A4_CH8-	-12V Int voltage	IDC						A4J3	-	20
A4_CH9-	Temp XLC-A	XLC-A						A4J3	-	22
A4_CH10-	Temp XLC-B	XLC-B						A4J3	-	24
A4_CH11-	Temp ILC	ILC						A4J3	-	26
A4_CH12-	Temp BM	BM						A4J3	-	28
A4_CH13-	Temp IDC	IDC						A4J3	-	30
A4_CH14-	Temp Cisco Sea1	IDC						A4J3	-	32
A4_CH15-	Temp Cisco Sea2	IDC						A4J3	-	34
A5_CH0-	MV Pressure	MV A13J2 pin 3						A5J3	-	4
A5_CH1-	MV 400 Voltage	MV A13J2 pin 4						A5J3	-	6
A5_CH2-	MV 400 Current	MV A13J2 pin 5						A5J3	-	8
A5_CH3-	DCS- Relative Humidity	IDC						A5J3	-	10
A5_CH4-	DCS- Temp NE Laser East	IDC						A5J3	-	12
A5_CH5-	DCS- Temp NE Laser West	IDC						A5J3	-	14
A5_CH6-	DCS- Temp Ambient Top	IDC						A5J3	-	16
A5_CH7-	DCS- Temp OE Converter East	IDC						A5J3	-	18
A5_CH8-	DCS- Temp OE Converter West	IDC						A5J3	-	20
A5_CH9-	Grounded	IDC						A5J3	-	22
A5_CH10-	Grounded	IDC						A5J3	-	24
A5_CH11-	Grounded	IDC						A5J3	-	26
A5_CH12-	Grounded	IDC						A5J3	-	28
A5_CH13-	Grounded	IDC						A5J3	-	30
A5_CH14-	Grounded	IDC						A5J3	-	32
A5_CH15-	Grounded	IDC						A5J3	-	34