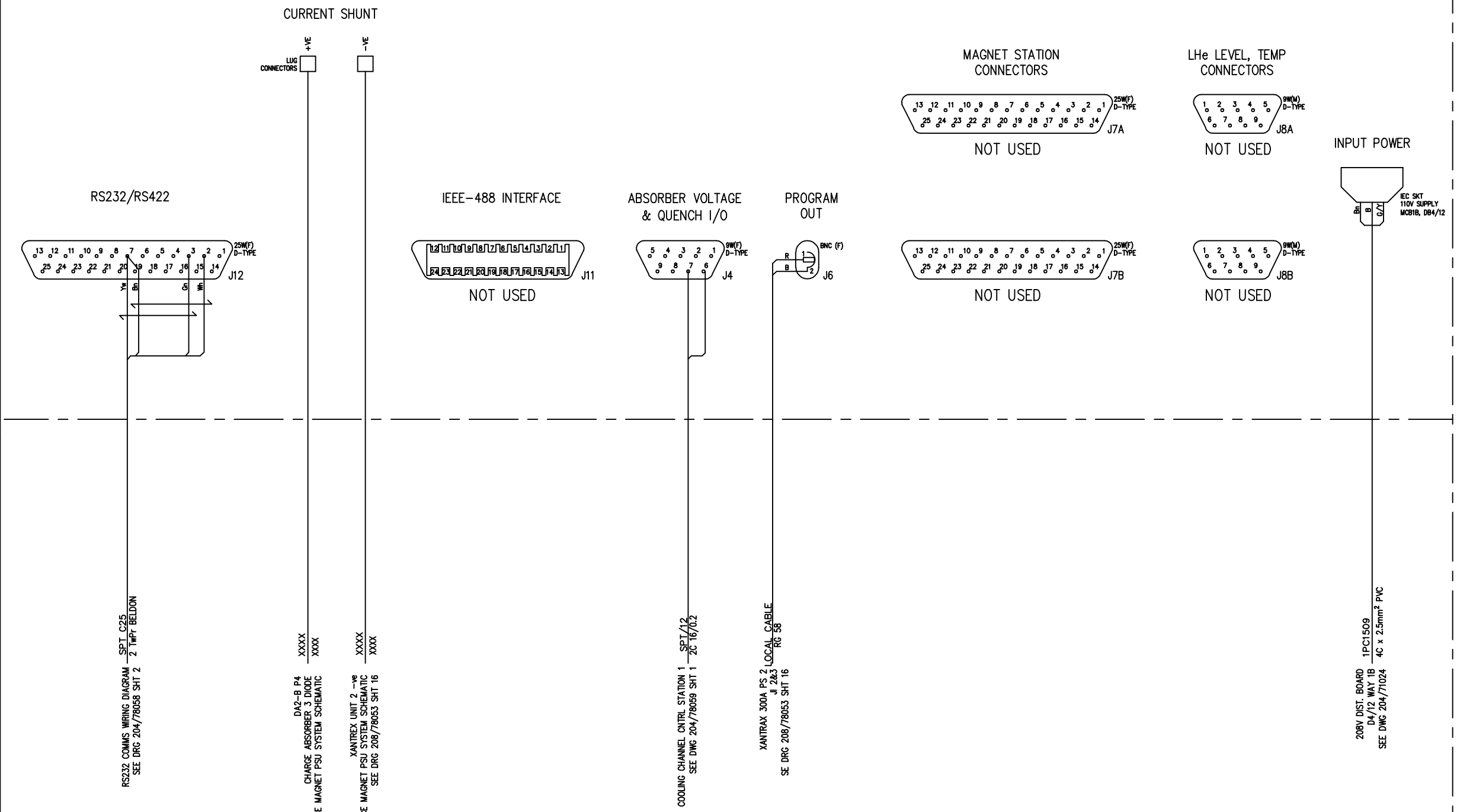
DRG No A0- 204/78053 SHT13 OF 16

AMI 420 CONTROLLER UNIT 2



ABSORBER VOLTAGE QUENCH I/O

J4

Pin	Signal
5	EXT. POWER SUPPLY
4	EXT. POWER SUPPLY
3	GROUND
2	QUENCH O/P–
1	QUENCH O/P+
9	TTL O/P (SPARE)
8	+5Vdc
7	QUENCH I/P–
6	QUENCH I/P+

RS 232/RS422

J12

Pin	Signal	Pin	Signal
13	NC/CTS–	25	NC/NC
12	NC/RTS–	24	NC/NC
11	NC/DSR–	23	NC/NC
10	NC/NC	22	RI/NC
9	NC/NC	21	NC/TX–
8	DCD/DCD+	20	DTR/DTR+
7	GND/GND	19	NC/NC
6	DSR/DRS+	18	NC/NC
5	CTS/CTS+	17	NC/NC
4	RTS/RTS+	16	NC/RX–
3	RD/RX+	15	NC/DTR–
2	TD/TX+	14	NC/DCD–
1	GND/GND		

MAGNET STATION CONNECTORS

J7A/B

Pin	Signal	Pin	Signal
13	SPARE	25	SPARE
12	MAGNET VOLT TAP V– (B)	24	SPARE
11	MAGNET VOLT TAP V+ (Y)	23	SPARE
10	PERSISTANT SW HEATER (Bk)	22	SPARE
9	PERSISTANT SW HEATER (R)	21	SPARE
8	TEMP SENSOR V+ (B)	20	SPARE
7	TEMP SENSOR V– (Y)	19	EXT. SW HEATER CURRENT
6	TEMP SENSOR I– (Bk)	18	EXT. SW HEATER CURRENT
5	TEMP SENSOR I+ (R)	17	SPARE
4	LHe SENSOR V+ (B)	16	SPARE
3	LHe SENSOR V– (Y)	15	SPARE
2	LHe SENSOR I– (Bk)	14	SPARE
1	LHe SENSOR I+ (R)		

LHe LEVEL, TEMP CONNECTORS

J8A/B

Pin	Signal
1	LHe SENSOR I+ (R)
2	TEMP SENSOR I+ (R)
3	TEMP SENSOR V– (Y)
4	TEMP SENSOR I– (Bk)
5	TEMP SENSOR V+ (B)
6	LHe SENSOR V– (Y)
7	LHe SENSOR I– (Bk)
8	LHe SENSOR V+ (B)
9	NC

IEEE-488 INTERFACE

Pin	Signal	Pin	Signal
12	GND [LOGIC GROUND]	1	SHIELD
11	GND 11 [GND WIRE FOR ATN]	2	ATN [ATTENTION]
10	GND 10 [GND WIRE FOR SRQ]	3	SRQ [SERVICE REQUEST]
9	GND 9 [GND WIRE FOR IFC]	4	IFC [INTERFACE CLEAR]
8	GND 8 [GND WIRE FOR NDAC]	5	NDAC [NOT DATA ACCEPTED]
7	GND 7 [GND WIRE FOR NRFD]	6	NRFD [NOT READY FOR DATA]
6	GND 6 [GND WIRE FOR DAV]	7	DAV [DATA VALID]
5	REN [REMOTE ENABLE]	8	EOI [END OR IDENTIFY]
4	DIO 8 [DATA I/O LINE 8]	9	DIO 4 [DATA I/O LINE 4]
3	DIO 7 [DATA I/O LINE 7]	10	DIO 3 [DATA I/O LINE 3]
2	DIO 6 [DATA I/O LINE 6]	11	DIO 2 [DATA I/O LINE 2]
1	DIO 5 [DATA I/O LINE 5]	12	DIO 1 [DATA I/O LINE 1]

KEY

NC – NOT CONNECTED

SCALE 0

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED

DRN DATE	P.A.D. 21/03/12	SCIENCE AND TECHNOLOGY FACILITIES COUNCIL DARESBURY LABORATORY CHESHIRE
CKD DATE	I.M. 27/03/12	TITLE MICE COOLING CHANNEL TEST RACK EQUIPMENT WIRING DIAGRAM
CERT DATE		
APPD DATE	I.M. 27/03/12	DRG No A0–204/78053 SHT 13 OF 16 ISSUE
		CAD PART No

DRAWING LIST:–

CONTRACTORS COMPANY
CONTRACTORS DRG No

A FIRST ISSUE

REF DRAWINGS
204/78050 SPECTROMETER TEST RACK BLOCK DIAGRAM
204/78055 SPECTROMETER TEST RACK CANBUS/VME NETWORK
204/78057 PSU/COMMS/SIGNAL CONVERTER WIRING DIAGRAM
204/78059 SPECTROMETER TEST RACK CANBUS WIRING DIAGRAM
204/78052 SPECTROMETER TEST RACK POWER DIST DIAGRAM
204/78056 SPECTROMETER TEST RACK DAC/ADC WIRING DIAGRAM
204/78058 SPECTROMETER TEST RACK RS232 WIRING DIAGRAM

ORIGINAL FRAME SIZE 1140mm X 790mm