

SPC-1

Module DIM Module number 02

Chan.	ID outside	Control Console	TBC-17	Name
01	TR01G01	SPC-1/AD2 XA1:A1,B1,C1	TBC-17/XW04:+01A,-02A	Beam Door 1
02	TR01G02	SPC-1/AD2 XA1:D1,E1,A2	TBC-17/XW04:+03A,-04A	Beam Door 2
03	TR01G03	SPC-1/AD2 XA1:B2,C2,D2	TBC-17/XW04:+05A,-06A	Beam Door 3
04	TR01G04	SPC-1/AD2 XA1:E2,A3,B3	TBC-17/XW04:+07A,-08A	Beam Door 4
05	TR01G05	SPC-1/AD2 XA1:C3,D3,E3	TBC-17/XW04:+09A,-10A	Beam Door 5
06	TR01G06	SPC-1/AD2 XA1:A4,B4,C4	TBC-17/XW04:+11A,-12A	Beam Door 6
07	TR01G07	SPC-1/AD2 XA1:D4,E4,A5	TBC-17/XW04:+13A,-14A	Beam Door 7
08	TR01G08	SPC-1/AD2 XA1:B5,C5,D5	TBC-17/XW04:+15A,-16A	Beam Door 8
09	TR01G09	SPC-1/AD2 XA1:E5,A6,B6	TBC-17/XW04:+17A,-18A	Beam Door 9
10	TR01G10	SPC-1/AD2 XA1:C6,D6,E6	TBC-17/XW04:+19A,-20A	Beam Door 10
11	TR01G11	SPC-1/AD2 XA1:A7,B7,C7	TBC-17/XW04:+21A,-22A	Beam Door 11
12	TR01G12	SPC-1/AD2 XA1:D7,E7,A8	TBC-17/XW04:+23A,-24A	Beam Door 12
13	TR01G13	SPC-1/AD2 XA1:B8,C8,D8	TBC-17/XW04:+25A,-26A	Beam Door 13
14	TR01G14	SPC-1/AD2 XA1:E8,A9,B9	TBC-17/XW04:+27A,-28A	Beam Door 14
15	YC01SA03	SPC-1/AD2 XA1:C9,D9,E9	TBC-17/XW04:+29A,-30A	KEY «OFF/OPERATE»
16	TR00G01	SPC-1/AD2 XA1:A10,B10,C10	TBC-17/XW04:+31A,-32A	Coluna Thermal door
17	TR00G02	SPC-1/AD2 XA2:A1,B1,C1	TBC-17/XW04:+33A,-34A	Machine room open
18	TR00G03	SPC-1/AD2 XA2:D1,E1,A2	TBC-17/XW04:+35A,-36A	SRE
19	TB01J02	SPC-1/AD2 XA2:B2,C2,D2	TBC-17/XW04:+37A,-38A	Humidity in the room pool
20	YA01L01	SPC-1/AD2 XA2:E2,A3,B3	TBC-17/XW04:+39A,-40A	Pool Level
21	VC10L01	SPC-1/AD2 XA2:C3,D3,E3	TBC-17/XW04:+41A,-42A	Level in the cooling tower A
22	VC20L01	SPC-1/AD2 XA2:A4,B4,C4	TBC-17/XW04:+43A,-44A	Level in the cooling tower B
23	VC10D02B06	SPC-1/AD2 XA2:D4,E4,A5	TBC-17/XW04:+45A,-46A	No backup pump power A
24	VC20D02B06	SPC-1/AD2 XA2:B5,C5,D5	TBC-17/XW04:+47A,-48A	No backup pump power B
25	SFR01G04	SPC-1/AD2 XA2:E5,A6,B6	TBC-17/XW04:+49A,-50A	Limit switch SHM1 in the "Drive stop"
26	SFR02G04	SPC-1/AD2 XA2:C6,D6,E6	TBC-17/XW04:+51A,-52A	Limit switch SHM2 in the "Drive stop"
27	SFR03G04	SPC-1/AD2 XA2:A7,B7,C7	TBC-17/XW04:+53A,-54A	Limit switch SHM3 in the "Drive stop"
28	SFR04G04	SPC-1/AD2 XA2:D7,E7,A8	TBC-17/XW04:+55A,-56A	Limit switch REG in the "Magneto no clutch/Drive stop"
29	SFR01SA3	SPC-1/AD2 XA2:B8,C8,D8	TBC-17/XW04:+57A,-58A	SHIM1 Control button in the "Uncouple Magneto"
30	SFR02SA3	SPC-1/AD2 XA2:E8,A9,B9	TBC-17/XW04:+59A,-60A	SHIM2 Control button in the "Uncouple Magneto"
31	SFR03SA3	SPC-1/AD2 XA2:C9,D9,E9	TBC-17/XW04:+61A,-62A	SHIM3 Control button in the "Uncouple Magneto"
32	SFR04SA3	SPC-1/AD2 XA2:A10,B10,C10	TBC-17/XW04:+63A,-64A	REG Control button in the "Uncouple Magneto"

Module AIM Module number 04

Chan.	ID outside	Control Console	TBC-17	Name
01	XQ10R01	SPC-1/AD4 XA1:A1,B1,C1	TBC-17/XW05:+01A,-02A	MA1 - Mobile Bridge - Left
02	XQ10R02	SPC-1/AD4 XA1:D1,E1,A2	TBC-17/XW05:+03A,-04A	MA2 - Mobile Bridge - Right
03	XQ00R03	SPC-1/AD4 XA1:B2,C2,D2	TBC-17/XW05:+05A,-06A	MA3 - Pool Hall
04	XQ00R04	SPC-1/AD4 XA1:E2,A3,B3	TBC-17/XW05:+07A,-08A	MA4 - Collimation Tube number 8
05	XQ10R05	SPC-1/AD4 XA1:C3,D3,E3	TBC-17/XW05:+09A,-10A	MA5 - Collimation Tube number 3/4
06	TV01J01	SPC-1/AD4 XA1:A4,B4,C4	TBC-17/XW05:+11A,-12A	MD1 - Experiments room
07	TV01J02	SPC-1/AD4 XA1:D4,E4,A5	TBC-17/XW05:+13A,-14A	MD2 - Pool Hall
08	YA10F01	SPC-1/AD4 XA1:B5,C5,D5	TBC-17/XW05:+15A,-16A	F1 - Primary flow SC1
09	YA10F04	SPC-1/AD4 XA1:E5,A6,B6	TBC-17/XW05:+17A,-18A	DP - Delta P of the core SC1
10	VC10F01	SPC-1/AD4 XA1:C6,D6,E6	TBC-17/XW05:+19A,-20A	F2 - Secondary flow - exchanger A
11	VC20F01	SPC-1/AD4 XA1:A7,B7,C7	TBC-17/XW05:+21A,-22A	F3 - Secondary flow - exchanger B
12	TG01L01	SPC-1/AD4 XA1:D7,E7,A8	TBC-17/XW05:+23A,-24A	LT11 - Pool level
13	TG01L02	SPC-1/AD4 XA1:B8,C8,D8	TBC-17/XW05:+25A,-26A	LT19 - Pool level
14	TB01J01	SPC-1/AD4 XA1:E8,A9,B9	TBC-17/XW05:+27A,-28A	C0 - Conduct water pool
15	TB02J01	SPC-1/AD4 XA1:C9,D9,E9	TBC-17/XW05:+29A,-30A	C1 - Conduct water pool after treatment system
16	TB02J02	SPC-1/AD4 XA1:A10,B10,C10	TBC-17/XW05:+31A,-32A	C2 - Conduct water pool before retreatment system
17	CP01TXA01	SPC-1/AD4 XA2:A1,B1,C1	TBC-17/XW05:+33A,-34A	Compensation of cold junction thermocouples AC1 up
18	CP01TXA02	SPC-1/AD4 XA2:D1,E1,A2	TBC-17/XW05:+35A,-36A	Compensation of cold junction thermocouples AC1 down
19	REZ01TYPE_19MB	SPC-1/AD4 XA2:B2,C2,D2	TBC-17/XW05:+37A,-38A	Reserve signal type mV. Input 01_19

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Module AIM Module number 04

Chan.	ID outside	Control Console	TBC-17	Name
20	REZ01TYPE_20MB	SPC-1/AD4 XA2:E2,A3,B3	TBC-17/XW05:+39A,-40A	Reserve signal type mV. Input 01_20
21	YA01T03	SPC-1/AD4 XA2:C3,D3,E3	TBC-17/XW05:+41A,-42A	T3 - Temperature of the heat medium at the inlet of the reactor core
22	YA11T04	SPC-1/AD4 XA2:A4,B4,C4	TBC-17/XW05:+43A,-44A	T4 - Temperature of the heat medium at the output from the reactor core SC1
23	REZ01TYPE_23MB	SPC-1/AD4 XA2:D4,E4,A5	TBC-17/XW05:+45A,-46A	Reserve signal type mV. Input 01_23
24	YD10T01	SPC-1/AD4 XA2:B5,C5,D5	TBC-17/XW05:+47A,-48A	T6 - Temperature of the main pump motor B101-A
25	VC10T01	SPC-1/AD4 XA2:E5,A6,B6	TBC-17/XW05:+49A,-50A	T6.1 - Temperature of the auxiliary pump motor B102-A
26	YC01T01	SPC-1/AD4 XA2:C6,D6,E6	TBC-17/XW05:+51A,-52A	T7 - Temperature at the inlet of the primary exchanger A
27	YC01T02	SPC-1/AD4 XA2:A7,B7,C7	TBC-17/XW05:+53A,-54A	T8 - Temperature at the output from the primary exchanger A
28	VC01T01	SPC-1/AD4 XA2:D7,E7,A8	TBC-17/XW05:+55A,-56A	T12 - Temperature at the inlet of the secondary exchanger A
29	VC01T02	SPC-1/AD4 XA2:B8,C8,D8	TBC-17/XW05:+57A,-58A	T13 - Temperature at the output from the secondary exchanger A
30	VC01T03	SPC-1/AD4 XA2:E8,A9,B9	TBC-17/XW05:+59A,-60A	T16 - Temperature at the inlet of the cooling tower A
31	VC01T04	SPC-1/AD4 XA2:C9,D9,E9	TBC-17/XW05:+61A,-62A	T17 - Temperature at the output from the cooling tower A
32	XC10T03	SPC-1/AD4 XA2:A10,B10,C10	TBC-17/XW05:+63A,-64A	T26 - Temperature in the basement SC1

Module DIM Module number 06

Chan.	ID outside	Control Console	TBC-17	Name
01	YC01SA11	SPC-1/AD6 XA1:A1,B1,C1	TBC-17/XW06:+01A,-02A	Manual Scram "+" SC1
02	YC01SA12	SPC-1/AD6 XA1:D1,E1,A2	TBC-17/XW06:+03A,-04A	Manual Scram "-" SC1
03	R-R	SPC-1/AD6 XA1:B2,C2,D2	TBC-17/XW06:+05A,-06A	Reserve
04	R-R	SPC-1/AD6 XA1:E2,A3,B3	TBC-17/XW06:+07A,-08A	Reserve
05	R-R	SPC-1/AD6 XA1:C3,D3,E3	TBC-17/XW06:+09A,-10A	Reserve
06	YZ10SR01	SPC-1/AD6 XA1:A4,B4,C4	TBC-17/XW06:+11A,-12A	Tripped SCRAM in electrical circuits SC1
07	YC01SA111	SPC-1/AD6 XA1:D4,E4,A5	TBC-17/XW06:+13A,-14A	Active relay SCRAM S11"
08	YC01SA112	SPC-1/AD6 XA1:B5,C5,D5	TBC-17/XW06:+15A,-16A	Active relay SCRAM S11"
09	TR10G01	SPC-1/AD6 XA1:E5,A6,B6	TBC-17/XW06:+17A,-18A	Bridge Lock SC1
10	TR10G02	SPC-1/AD6 XA1:C6,D6,E6	TBC-17/XW06:+19A,-20A	Header Up SC1
11	TR11G00	SPC-1/AD6 XA1:A7,B7,C7	TBC-17/XW06:+21A,-22A	Beam Door 1-14 SC1
12	HV15S01B12	SPC-1/AD6 XA1:D7,E7,A8	TBC-17/XW06:+23A,-24A	Closed valve HV-15 (k1)
13	HV16S01B12	SPC-1/AD6 XA1:B8,C8,D8	TBC-17/XW06:+25A,-26A	Closed valve HV-16 (k1)
14	HV17S01B12	SPC-1/AD6 XA1:E8,A9,B9	TBC-17/XW06:+27A,-28A	Closed valve HV-17 (k1)
15	HV18S01B12	SPC-1/AD6 XA1:C9,D9,E9	TBC-17/XW06:+29A,-30A	Closed valve HV-18 (k1)
16	VC10D01B16	SPC-1/AD6 XA1:A10,B10,C10	TBC-17/XW06:+31A,-32A	Fault voltage of the primary pump A SC1
17	VC20D01B16	SPC-1/AD6 XA2:A1,B1,C1	TBC-17/XW06:+33A,-34A	Fault voltage of the primary pump B SC1
18	PIT01G01	SPC-1/AD6 XA2:D1,E1,A2	TBC-17/XW06:+35A,-36A	Fault of high voltage power I input SC1
19	PIT02G01	SPC-1/AD6 XA2:B2,C2,D2	TBC-17/XW06:+37A,-38A	Fault of high voltage power II input SC1
20	PIT03G01	SPC-1/AD6 XA2:E2,A3,B3	TBC-17/XW06:+39A,-40A	Fault voltage in electrical circuits SCRAM SC1
21	HP01SC01HV	SPC-1/AD6 XA2:C3,D3,E3	TBC-17/XW06:+41A,-42A	Fault high voltage safety channel SC1
22	HP01SC01DV	SPC-1/AD6 XA2:A4,B4,C4	TBC-17/XW06:+43A,-44A	Selector switch disabling ionization chamber SC1
23	XO01Q01	SPC-1/AD6 XA2:D4,E4,A5	TBC-17/XW06:+45A,-46A	Radioactivity on the active region (1500) (1k)
24	XO01Q02	SPC-1/AD6 XA2:B5,C5,D5	TBC-17/XW06:+47A,-48A	Radioactivity on the active region (1500) (1k)
25	XO01Q03	SPC-1/AD6 XA2:E5,A6,B6	TBC-17/XW06:+49A,-50A	Radioactivity in the control room (1500) (1k)
26	TG11L01	SPC-1/AD6 XA2:C6,D6,E6	TBC-17/XW06:+51A,-52A	LS12 - level is low (-350mm)
27	TG11L02	SPC-1/AD6 XA2:A7,B7,C7	TBC-17/XW06:+53A,-54A	LS12 - minimum level (-4500mm)
28	R-R	SPC-1/AD6 XA2:D7,E7,A8	TBC-17/XW06:+55A,-56A	Reserve
29	R-R	SPC-1/AD6 XA2:B8,C8,D8	TBC-17/XW06:+57A,-58A	Reserve
30	SIG01LT01	SPC-1/AD6 XA2:E8,A9,B9	TBC-17/XW06:+59A,-60A	Test button light panel SC1
31	SIG01AS01	SPC-1/AD6 XA2:C9,D9,E9	TBC-17/XW06:+61A,-62A	Test button the sound alarm SC1
32	SIG01WS01	SPC-1/AD6 XA2:A10,B10,C10	TBC-17/XW06:+63A,-64A	Test button the sound warning SC1

Module DOM Module number 08

Chan.	ID outside	Control Console	TBC-17	Name
01	R-R	SPC-1/AD8 XA1:A1,B1,C1	TBC-17/XW07:+01A,-02A	Reserve
02	R-R	SPC-1/AD8 XA1:D1,E1,A2	TBC-17/XW07:+03A,-04A	Reserve