

**BLS Power Supply
DIGITAL STATUS**

Chan	Word Count 0	Word Count 1	Word Count 2	Word Count 3
1	spare	spare	spare	spare
2	spare	spare	spare	spare
3	Right Group Over Temp. 1=OK	spare	spare	spare
4	Right Group ON 1=OFF	B Caused Trip	D Caused Trip	F Caused Trip
5	spare	B Under Voltage	D Under Voltage	F Under Voltage
6	spare	B Over Voltage	D Over Voltage	F Over Voltage
7	Left Group Over Temp. 1=OK	B Over Current	D Over Current	F Over Current
8	Left Group ON 1=OFF	B Over Temperature	D Over Temperature	F Over Temperature
9	Over Voltage Timeout	spare	spare	spare
10	High Temperature	spare	spare	spare
11	External Interlock	spare	spare	spare
12	Phase C Present	A Caused Trip	C Caused Trip	E Caused Trip
13	Phase B Present	A Under Voltage	C Under Voltage	E Under Voltage
14	Phase A Present	A Over Voltage	C Over Voltage	E Over Voltage
15	Breaker ON	A Over Current	C Over Current	E Over Current
16	Remote=0/Local=1	A Over Temperature	C Over Temperature	E Over Temperature

A 5-bit word count is output on the digital connectors. The word count along with the selector modules determines what data is seen on the digital channel.

SELECTOR MODULE 0

LEFT SIDE OF TOP SUPPLY (Crate 3)

Chan	Word Count 4	Word Count 5	Word Count 6	Word Count 7
1	spare	spare	spare	Not Used
2	spare	spare	spare	Not Used
3	spare	spare	spare	Not Used
4	B Caused Trip	D Caused Trip	F Caused Trip	Not Used
5	B Under Voltage	D Under Voltage	F Under Voltage	Not Used
6	B Over Voltage	D Over Voltage	F Over Voltage	Not Used
7	B Over Current	D Over Current	F Over Current	Not Used
8	B Over Temperature	D Over Temperature	F Over Temperature	Not Used
9	spare	spare	spare	Not Used
10	spare	spare	spare	Not Used
11	spare	spare	spare	Not Used
12	A Caused Trip	C Caused Trip	E Caused Trip	Not Used
13	A Under Voltage	C Under Voltage	E Under Voltage	Not Used
14	A Over Voltage	C Over Voltage	E Over Voltage	Not Used
15	A Over Current	C Over Current	E Over Current	Not Used
16	A Over Temperature	C Over Temperature	E Over Temperature	Not Used

RIGHT SIDE OF TOP SUPPLY (Crate 0)

**BLS Power Supply
DIGITAL STATUS**

Chan	Word Count 8	Word Count 9	Word Count 10	Word Count 11
1	spare	spare	spare	spare
2	spare	spare	spare	spare
3	Right Group Over Temp. 1=OK	spare	spare	spare
4	Right Group ON 1=OFF	B Caused Trip	D Caused Trip	F Caused Trip
5	spare	B Under Voltage	D Under Voltage	F Under Voltage
6	spare	B Over Voltage	D Over Voltage	F Over Voltage
7	Left Group Over Temp. 1=OK	B Over Current	D Over Current	F Over Current
8	Left Group ON 1=OFF	B Over Temperature	D Over Temperature	F Over Temperature
9	Over Voltage Timeout	spare	spare	spare
10	High Temperature	spare	spare	spare
11	External Interlock	spare	spare	spare
12	Phase C Present	A Caused Trip	C Caused Trip	E Caused Trip
13	Phase B Present	A Under Voltage	C Under Voltage	E Under Voltage
14	Phase A Present	A Over Voltage	C Over Voltage	E Over Voltage
15	Breaker ON	A Over Current	C Over Current	E Over Current
16	Remote=0/Local=1	A Over Temperature	C Over Temperature	E Over Temperature

SELECTOR MODULE 1

LEFT SIDE OF MIDDLE SUPPLY (Crate 4)

Chan	Word Count 12	Word Count 13	Word Count 14	Word Count 15
1	spare	spare	spare	Not Used
2	spare	spare	spare	Not Used
3	spare	spare	spare	Not Used
4	B Caused Trip	D Caused Trip	F Caused Trip	Not Used
5	B Under Voltage	D Under Voltage	F Under Voltage	Not Used
6	B Over Voltage	D Over Voltage	F Over Voltage	Not Used
7	B Over Current	D Over Current	F Over Current	Not Used
8	B Over Temperature	D Over Temperature	F Over Temperature	Not Used
9	spare	spare	spare	Not Used
10	spare	spare	spare	Not Used
11	spare	spare	spare	Not Used
12	A Caused Trip	C Caused Trip	E Caused Trip	Not Used
13	A Under Voltage	C Under Voltage	E Under Voltage	Not Used
14	A Over Voltage	C Over Voltage	E Over Voltage	Not Used
15	A Over Current	C Over Current	E Over Current	Not Used
16	A Over Temperature	C Over Temperature	E Over Temperature	Not Used

RIGHT SIDE OF MIDDLE SUPPLY (Crate 1)

**BLS Power Supply
DIGITAL STATUS**

Chan	Word Count 16	Word Count 17	Word Count 18	Word Count 19
1	spare	spare	spare	spare
2	spare	spare	spare	spare
3	Right Group Over Temp. 1=OK	spare	spare	spare
4	Right Group ON 1=OFF	B Caused Trip	D Caused Trip	F Caused Trip
5	spare	B Under Voltage	D Under Voltage	F Under Voltage
6	spare	B Over Voltage	D Over Voltage	F Over Voltage
7	Left Group Over Temp. 1=OK	B Over Current	D Over Current	F Over Current
8	Left Group ON 1=OFF	B Over Temperature	D Over Temperature	F Over Temperature
9	Over Voltage Timeout	spare	spare	spare
10	High Temperature	spare	spare	spare
11	External Interlock	spare	spare	spare
12	Phase C Present	A Caused Trip	C Caused Trip	E Caused Trip
13	Phase B Present	A Under Voltage	C Under Voltage	E Under Voltage
14	Phase A Present	A Over Voltage	C Over Voltage	E Over Voltage
15	Breaker ON	A Over Current	C Over Current	E Over Current
16	Remote=0/Local=1	A Over Temperature	C Over Temperature	E Over Temperature

SELECTOR MODULE 2

LEFT SIDE OF BOTTOM SUPPLY (Crate 5)

Chan	Word Count 20	Word Count 21	Word Count 22	Word Count 23
1	spare	spare	spare	Not Used
2	spare	spare	spare	Not Used
3	spare	spare	spare	Not Used
4	B Caused Trip	D Caused Trip	F Caused Trip	Not Used
5	B Under Voltage	D Under Voltage	F Under Voltage	Not Used
6	B Over Voltage	D Over Voltage	F Over Voltage	Not Used
7	B Over Current	D Over Current	F Over Current	Not Used
8	B Over Temperature	D Over Temperature	F Over Temperature	Not Used
9	spare	spare	spare	Not Used
10	spare	spare	spare	Not Used
11	spare	spare	spare	Not Used
12	A Caused Trip	C Caused Trip	E Caused Trip	Not Used
13	A Under Voltage	C Under Voltage	E Under Voltage	Not Used
14	A Over Voltage	C Over Voltage	E Over Voltage	Not Used
15	A Over Current	C Over Current	E Over Current	Not Used
16	A Over Temperature	C Over Temperature	E Over Temperature	Not Used

RIGHT SIDE OF BOTTOM SUPPLY (Crate 2)