

qpswCtrl

Fault	Bit	
Electric Safety Fault	0	Not wired at the present time. Response: Follow Link to Collider Electrical PS Group call in list or Link to Quench Detection Group list
PFN Voltage High	1	Pulse Forming Network (PFN) sensing voltage is higher than the set point. The compensating voltage will be too high for normal operation. Response: Follow Link to Collider Electrical PS Group call in list or Link to Quench Detection Group list
PFN Voltage Low	2	Pulse Forming Network (PFN) sensing voltage is lower than the set point. The compensating voltage will be insufficient to suppress the arcing across the contactor. Response: Follow Link to Collider Electrical PS Group call in list or Link to Quench Detection Group list
Contactor Fault	3	The big mechanical switch was not operated correctly. Either stuck in the closed or the open position. Response: Follow Link to Collider Electrical PS Group call in list or Link to Quench Detection Group list
Thermal Fault	4	One or more out of total six SCRs was (were) in over temperature condition. Response: Follow Link to Collider Electrical PS Group call in list or Link to Quench Detection Group list
Air Flow Fault	5	One or more out of total four fans was (were) not operated correctly. Response: Follow Link to Collider Electrical PS Group call in list or Link to Quench Detection Group list
Over Current Fault	6	Current in one or more out of total six SCRs was (were) above the over current (OVC) set point. Response: Follow Link to Collider Electrical PS Group call in list or Link to Quench Detection Group list
UPS Fault	7	Uninterrupted Power Supply was not operated correctly. Response: Try to recycle the power to the whole system, if problem still exists then Follow Link to Collider Electrical PS Group call in list or Link to Quench Detection Group list
No Quench Link	8	Quench Link into the system was not ready. Normally, this is not a fault but a status indicating external equipment was not ready for the Quench Switch to operate. Response: If all power supplies QPAs are turned on within the 1010A building, then

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Main SCR On	9	This bit must be on for normal operation. TAPE checks this bit before completing the turn on procedure. Response: Follow Link to Collider Electrical PS Group call in list or Link to Quench Detection Group list
Discharge	10	Indicating the PFN capacitors were discharged. This bit must be NOT SET for the Quench Switch to operate. Response: Follow Link to Collider Electrical PS Group call in list or Link to Quench Detection Group list
Open Contactor	11	Indicates the High Current Contactor is in the open position. This bit must be NOT SET for the Quench Switch to operate. Response: Follow Link to Collider Electrical PS Group call in list or Link to Quench Detection Group list
Closed Contactor	12	Indicates the High Current Contactor is in the closed position. This bit must be set, along with Main SCR On (bit 9) and Remote On (bit 13) in order for the Main power supply to operate properly. Response: Follow Link to Collider Electrical PS Group call in list or Link to Quench Detection Group list
Remote On	13	This bit indicates the setting of the manual key switch that locates behind the system's front panel. 1=in remote control and 0=in local control. Response: Follow Link to Collider Electrical PS Group call in list or Link to Quench Detection Group list
Comm Failure	18	

Note: Bit 18 is generated by SW

[Link to Collider Electrical PS Group call in list](#)
[Link to Quench Detection Group list](#)