

## psCtrlM

Fault	Bit	Magnet Type
Over Temp	4	All But Snake Temperature inside the power supply was over the safe limit. Response: Follow <a href="#">Link to Collider Electrical PS Group call in list</a>
Summary	4	Snake Response: Follow <a href="#">Link to Collider Electrical PS Group call in list</a>
Error signal	5	All The output current did not match the input set point. Response: Follow <a href="#">Link to Collider Electrical PS Group call in list</a>
DC Overcurrent	6	All Output current is over the set point. Response: Follow <a href="#">Link to Collider Electrical PS Group call in list</a>
Quench	7	All But Correctors & Gamma T Response: Follow <a href="#">Link to Collider Electrical PS Group call in list</a>
Over Voltage	7	Correctors Over voltage condition was detected. Response: Follow <a href="#">Link to Collider Electrical PS Group call in list</a>
VJump	7	Gamma T Power supply was not able to perform the “jump” function. Response: Follow <a href="#">Link to Collider Electrical PS Group call in list</a>
ESI	8	All But Correctors, Sextupole & New PS Electrical Safety Interlock (ESI) error Response: Follow <a href="#">Link to Collider Electrical PS Group call in list</a>
Load Fault	8	New PS Response: Follow <a href="#">Link to Collider Electrical PS Group call in list</a>
Lead Flow	8	Correctors & Sextupole Response: Follow <a href="#">Link to Collider Electrical PS Group call in list</a>
Magnetics	9	All But Gamma T Transformer overheated Response: Follow <a href="#">Link to Collider Electrical PS Group call in list</a>

Cap OV	9	Gamma T High voltage capacitor bank was over the safety set point.. <u>Response:</u> Follow <a href="#">Link to Collider Electrical PS Group call in list</a>
FET	10	All But Dynapower & Gamma T Field Effect Transistors (FET) fuses were blown. <u>Response:</u> Follow <a href="#">Link to Collider Electrical PS Group call in list</a>
Crowbar	10	Gamma T Over voltage condition was detected. <u>Response:</u> It normally happened when the power supply was turned off while outputting current. Otherwise, Follow <a href="#">Link to Collider Electrical PS Group call in list</a>
AC Overcurrent	10	Dynapower The power supply drawn too much primary current. <u>Response:</u> Follow <a href="#">Link to Collider Electrical PS Group call in list</a>
AC Phase	11	All But Gamma T Phase orientation was not correct. <u>Response:</u> Follow <a href="#">Link to Collider Electrical PS Group call in list</a>
Ground	11	Gamma T Leakage current to ground was above the set point. <u>Response:</u> Follow <a href="#">Link to Collider Electrical PS Group call in list</a>
Illegal Command	12	All
Reset Node Card	13	All
Comm Failure	14	All
No PS / Illegal State	15	All

Note: Bits 12 - 15 are generated by FW and / or SW.

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

[Link to Quench Detection Group list](#)