

Guidelines for the testing of team designed fusible links

The following guidelines are provided to help teams perform appropriate testing of team-designed fusible links for parallel cells in the accumulator. The results of the testing must be documented in the ESF.

- Testing must be done at low voltage and controlled constant current levels with a power not to exceed 40kW.
- Current must be measured for each test and sampled at a minimum sample rate of 200Hz.
- When the fusible link opens, molten metal may be ejected in the arc flash. Proper precaution must be taken to protect persons and facilities from this hazard.
- Results of blow time vs average current must be plotted in a scatterplot with log/log axis scaling.
- 4 samples must be tested at each current level (16 fusible links total).
- The current levels must be selected to satisfy the requirements below.

	Blow time
Current Level 1	30 sec < t < 300 sec
Current Level 2	5 sec < t < 15 sec
Current Level 3	0.2 sec < t < 1 sec
Current Level 4	0.05 sec < t < 0.15 sec