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D1L104 QUENCH SUMMARY

Magcool Bay E

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| QUENCH<br>#       | RUN<br># | CURRENT<br>(A) | T(in)<br>(K) | T(out)<br>(K) | START<br>(ms) | MIITS | COIL      | COMMENTS |
|-------------------|----------|----------------|--------------|---------------|---------------|-------|-----------|----------|
| <hr/>             |          |                |              |               |               |       |           |          |
| T = 4.5K (nom)    |          |                |              |               |               |       |           |          |
| No warm bore tube |          |                |              |               |               |       |           |          |
| 1                 | 8        | 6122           | 4.515        | 4.606         | -40           | 10.5  | lower     |          |
| 2                 | 9        | 6814           | 4.548        | 4.638         | -28           | 10.6  | upper     | (g)      |
|                   | 10       | 7000           | 4.509        | 4.620         |               |       | NO QUENCH | (h)      |

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Notes:

- a) Ramp rate for quenches was 20A/s. For quench 1, the magnet stopped at 5000A for 1 min before continuing the ramp at 20A/s.
- b) There was a 1 hour or more wait between quenches.
- c) The temperature sensors recorded are diode sensors T9 at the helium input and T7 at the output. Both have associated redundant sensors.
- d) There were no auxiliary voltage taps in the magnet coils.
- e) Data acquisition sampling rate was 1kHz for all quenches.
- f) Strip heaters were fired at 100V(nom) and 1ms.
- g) For quench 2, strip heaters were inadvertently left uncharged.
- h) For Run #10, the magnet reached 7000A without quench. It was then operated at 7000A for 20 min and then cycled down and up once again to 7000A without a quench.