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Update Project Proposal: SFF-TA-1023 Thermal Characterization Specification for EDSFF Devices

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Supporters: Mike Gregoire, Dell; Ross Stenfort, Sandisk; Kai-Uwe Schmidt, Solidigm

Update Project Proposal: SFF-TA-1023 Thermal Characterization Specification for EDSFF Devices

- Make changes to support Direct Liquid Cooling. Errata and clarifications for existing air-cooling support.
- Editor(s): Mike Gregoire, Dell; Anthony Constantine, Micron
- Supporters:
  1. Dell
  2. Micron
  3. Sandisk
  4. Solidigm

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- Specific changes proposed:
  - DLC based changes: Thermal curves, Test fixtures (cooling, pressure)
  - Existing air-cooling feedback captured to consider:
    - Results provided for shipping products have to represent shipping products. And raise awareness that the results of testing of pre-production units may need to considered as optimistic.
    - EDSFF is defined as "Enterprise/Datacenter Small Form Factor". However, I think it's "Standard" form factor.
    - the Developers Note refers to something called "60C approach velocity", but perhaps the author intended approach temperature?
    - MaxAmbient may be as low as 50C. However, ASHRAE A2 defines the max ambient as 35C. And even A3 (40c) and A4 (45c) are less than 50C. How can this spec possibly claim such a high ambient temperature? Or am I misinterpreting what is meant by Ambient? Can the MaxAmbient be lowered to support standard ASHRAE levels?
    - The phrase "1T" is used all over. I know the standards committee is trying to not use "1T" and just omit that text because 1T is implied if you don't say 2T. SFF-TA-1008 does not reference 1T.
    - Add E2 references and fixturing for airflow
  - Editorial changes
- IP Declaration (if applicable):
  - No IP declared
- Timeline
  - 1st draft in 3 months. Approval ballot by end of year.

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Thank You

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