

Attendance:

Mr. Tim Symons	Adaptec
Mr. Henry Wong	Agilent
Mr. Paul von Stamwitz	AMCC
Mr. Elwood Parsons	Foxconn
Mr. Barry Olawsky	Hewlett Packard Co.
Mr. George Penokie	IBM
Mr. Bill Bissonette	Intel Corporation
Mr. Mike Jenkins	LSIL
Mr. Brian Day	LSIL
Mr. Dan Colegrove	HGST
Mr. Mark Evans	Maxtor
Mr. Dick Uber	Maxtor
Mr. Bill Lye	PMC-Sierra
Mr. Ting Chan	GLogic
Mr. Alvin Cox	Seagate Technology
Mr. Himanshu R. Desai	Seagate Technology
Mr. Allen Kramer	Seagate Technology
Mr. Kalev Sepp	Tektronix
Mr. Dave Springberg	Vitesse
Mr. Mike Jackson	

20 People Present

Agenda:

1) 05-007r1 SAS-1.1 external cable electrical specification  
<http://www.t10.org/ftp/t10/document.05/05-007r1.pdf>

Barry presented data and proposed new table values and entries.  
<http://www.t10.org/ftp/t10/document.05/05-025r1.pdf>

Alvin has updated 05-007 to r1 to reflect changes.

2) 05-029r0 SAS-1.1 transmitter and receiver transients subsection  
<http://www.t10.org/ftp/t10/document.05/05-029r0.pdf>

Document received no comments as far as changes required.

Started discussion on time interval and if the transients during data transfers were being considered. The primary purpose of this specification is to prevent physical damage to IC's.

3) 05-019r1 SAS 1.1 OOB For SAS/SATA Support -- Proposed Changes  
<http://www.t10.org/ftp/t10/document.05/05-019r1.pdf>

Bill Bissonette has revised and posted r1. This proposal deals with the OOB amplitudes used in SAS systems that support SATA with the intent to avoid SATA drive RX exposure to excessive amplitudes during the OOB sequences possible with the present 'togglng' algorithm. This is a controversial proposal and deserves your review before next week's meetings if your company is concerned about physical layer issues.

4) New items

See notes on 05-023r0 and 04-370r2 below.

5) T10 F2F review items (please indicate any items that are not included in the agenda or the list below):

04-222r2 SAS-1.1 More phy test patterns[Elliott]

<http://www.t10.org/ftp/t10/document.04/04-222r2.pdf>

Possibility that the dword addition may need to be a SAS 2 proposal rather than SAS 1.1.

04-337r2 SAS-1.1 TCTF Editorial Changes[Olawsky]

<http://www.t10.org/ftp/t10/document.04/04-337r2.pdf>

04-378r0 SAS-1.1 Clarification of SATA Signaling Level Specification [Olawsky]

<http://www.t10.org/ftp/t10/document.04/04-378r0.pdf>

05-009r1 SAS-1.1 OOB AMPLITUDE MEASUREMENT METHOD [Bissonette]

<http://www.t10.org/ftp/t10/document.05/05-009r1.pdf>

Rev 1 was acceptable to group. Final review at PHY WG meeting.

05-023r0 SAS-1.1 Connector figures [Kachlic and Elliott]

<http://www.t10.org/ftp/t10/document.05/05-023r0.pdf>

Suggested the addition of single port cable picture. Rob will update accordingly.

External cable plug and receptacle pictures are in the wrong places (Figures 4 and 5 need to trade illustrations).

04-370r2 SAS-1.1 Merge IT and IR with XT and XR

<ftp://ftp.t10.org/t10/document.04/04-370r2.pdf>

FC-PI-2 Annex B has received some offline editorial review. Expect to see input regarding FC-PI-2 Annex B at January T10.

NOTE: 04-370r2 has changed the SAS specification from a received signal specification to a transmitter specification. This was not the original intent of the PHY WG in SAS 1.0 and we need to seriously consider what the conventions proposed by 04-0370 does to the specification.