Accredited Standards Committee*
X3, Information Technology

To: Membership of X3T10.1

From: Gerry Houlder

Subject: Misprint in SPI rev. 15a
                       Clause 10.4.1

Background
On page 34, section 10.4.1, item f): The 2nd sentence reads "It shall change any signals ..". When comparing this to section 10.3.1 item f), it should read "It shall not change any signals ..".

The addition of the word "not" is a substantial change in meaning for this sentence. Can we get this fixed before SPI is published? Should an errata be published for this?

10.4.1 Reselection request
The reselection request contains the SCSI ID of the device to be reselected.
When a reselection request is received the target PIA shall arbitrate for the SCSI bus, and if successful, reselect the designated SCSI device.
To perform an arbitration the target PIA shall:
    a) wait until the SEL and BSY signals are both continuously false for at least a bus settle delay;
    b) not assert any SCSI BUS signal within a bus free delay of step a) above;
    c) assert the BSY signal, assert its SCSI ID, and release all other DATA BUS signals no sooner than a bus free delay and no later than a bus set delay of step a)above;
Note 16 - There is no maximum delay before asserting the BSY signal and the SCSI ID
following the bus free delay in step b) as long as the SEL and BSY signals remain false.
However, SCSI devices that delay longer than a bus settle delay plus a bus set delay from the
time when the BSY and SEL signals first become false may fail to participate in arbitration
when competing with faster SCSI devices.
    d) wait at least an arbitration delay (measured from the assertion of the BSY signal) and then examine the DATA BUS to determine which SCSI IDs are true.
    e) If a higher priority SCSI ID exists on the DATA BUS, then arbitration has been lost. The target PIA shall release the BSY signal and its SCSI ID within a bus clear delay after the SEL signal becomes true. The PIA proceeds to reselection confirmation (see 10.4.4).
    f) If a higher priority SCSI ID does not exist on the DATA BUS then arbitration has been won. The target PIA shall assert the SEL signal. It shall not change any signals until at least a bus clear delay plus a bus settle delay has elapsed after asserting the SEL signal. The target PIA proceeds to reselection.
To perform a reselection the target PIA shall:
    a) assert the I/O signal so that this can be distinguished from selection;
    b) assert its assigned SCSI ID, assert the requested SCSI ID of the initiator, negate all remaining DATA BUS signals, and generate valid parity;
    c) release the BSY signal after two deskew delays have elapsed.