To: T10 Technical Committee
From: Bill Martin, Sierra Logic
Date: 6 September 2006
Subject: 06-408r0 Race condition for transition out of SP12:SAS_Fail state

*. Specification revision: sas2r05a
*. Page Number: 220
*. Section: 6.8.4.8
*. Layer: Phy Layer
*. Issue Description: In the case when SAS Speed negotiation window for the highest supported speed is successful, after the maximum speed negotiation window (highest supported speed plus one) fails, the following two transitions become valid resulting in race condition.
1) Transition SP14:SAS_Fail to SP1:OOB_AwaitCOMX
2) Transition SP14:SAS_Fail to SP8:SAS_Start

Proposed fix:
Change the following in section 6.8.4.8.2
"the maximum SAS speed negotiation window; or " TO
"the maximum SAS speed negotiation window and the previous speed negotiation window was not successful;"