To: T10 Technical Committee  
From: Rob Elliott, Compaq Computer Corporation (Robert.Elliott@compaq.com)  
Date: 6 September 2000  
Subject: SAM-2 ASCQ references in section 5.4

SAM-2 section 5.4 item b lists three additional sense codes - POWER ON, RESET, and TARGET RESET - which are not defined (with those names) in SPC-2. Either the names should be corrected or the text changed not to refer to “additional sense codes.”

**SAM-2 Section 5.4 Task and command lifetimes**

The application client assumes that the task exists from the time the Send SCSI Command protocol service request is invoked until it receives one of the following target responses:

a) A service response of TASK COMPLETE for that task;

b) Notification of a unit attention condition with one of the following additional sense codes:

   a) COMMANDS CLEARED BY ANOTHER INITIATOR (if in reference to the task set containing the task);
   
   b) POWER ON;
   
   c) RESET; or
   
   d) TARGET RESET.

   c) A service response of SERVICE DELIVERY OR TARGET FAILURE for the command. In this case, system implementations shall guarantee that the task associated with the failed command has ended;

   d) A service response of FUNCTION COMPLETE following an ABORT TASK task management request directed to the specified task;

   e) A service response of FUNCTION COMPLETE following an ABORT TASK SET or a CLEAR TASK SET task management function directed to the task set containing the specified task; or

   f) A service response of FUNCTION COMPLETE in response to a TARGET RESET.

Ralph Weber suggested they might mean, respectively:

   (POWER ON) 29h/01h POWER ON OCCURED
   (RESET) 29h/00h POWER ON, RESET, OR BUS DEVICE RESET OCCURRED
   (TARGET RESET) 29h/03h BUS DEVICE RESET FUNCTION OCCURRED

There is no exact parallel in SCSI-2, although this text has a similar list of conditions:

**SCSI-2 Section 7.9 Unit Attention Condition**

The target shall generate a unit attention condition for each initiator on each valid logical unit whenever the target has been reset by a BUS DEVICE RESET message, a hard reset condition, or by a power-on reset. The target shall also generate a unit attention condition on the affected logical unit(s) for each initiator whenever one of the following events occurs:

a) A removable medium may have been changed;

b) The mode parameters in effect for this initiator have been changed by another initiator;

c) The version or level of microcode has been changed;

d) Tagged commands queued for this initiator were cleared by another initiator;

e) INQUIRY data has been changed;

f) The mode parameters in effect for the initiator have been restored from non-volatile memory;

g) A change in the condition of a synchronized spindle;

h) Any other event occurs that requires the attention of the initiator.