**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."

**<u>SAM-2 Section 5.4 Task and command lifetimes</u>**
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) <u>POWER ON</u>;
    c) <u>RESET</u>; or
    d) <u>TARGET RESET</u>.
   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 OCCURRED
   (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:

**<u>SCSI-2 Section 7.9 Unit Attention Condition</u>**
The target shall generate a unit attention condition for each initiator on each valid logical unit whenever the target has been reset by a <u>BUS DEVICE RESET message, a hard reset condition, or by a power-on reset</u>. 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.