To: SCSI Working Group
From: Jeffrey Stai
Subject: Write and Verify

The following attached pages show the WRITE AND VERIFY command revised as we discussed at the May meeting. I recall that my charter was to include the changes proposed by Ralph Schultz on the wording of the medium certification definition, as related to the new MODE SELECT page. The implementor's note at the end of the section clarifies the 'two data transfer' issue.
A Write Same (WRITE SAME) bit of zero causes the command to be done as a normal WRITE. A WRITE bit of one causes a Write Same capability to occur. Only one logical block of data shall be sent during the Data Out Phase, regardless of the transfer length. The transfer length specifies the number of contiguous logical blocks to be written. All logical blocks written shall be written with the same data as the first logical block. A transfer length of zero shall be handled different when the WRITE bit is one. A transfer length of zero shall represent that the data be continuously written from the logical block addresses specified in the command block until the last logical block addressable.

IMPLEMENTER'S NOTE: The WRITE AND VERIFY command does not imply that the data shall be transferred twice i.e., once for the write pass, and once for the verify pass when performing a byte compare. If the user wishes guarantee that two transfers occur (e.g., to ensure the integrity of the path to the media), then the user should issue a WRITE command with the link bit set followed by a VERIFY command, transferring the same data on each command.