REQUESTED REVISION:

STANDARD: IEEE 802.3-2008

CLAUSE NUMBER: 52.5

CLAUSE TITLE: PMD to MDI optical specifications for 10GBASE-S

PROPOSED REVISION TEXT:

Add row to table 52.6 for OM4 fiber
50um MMF, 4700MHz/km, 2 to 400m

Add column to table 52-10
50um MMF, 4700MHz/km, 7.3dB, 400m, 2.9dB, 4.4dB, 0.0dB

RATIONALE FOR REVISION:

TIA-492AAD has ratified specifications for OM4 multimode fiber and we see increased interest in deploying 10GBASE-S interfaces over this new type of fiber for longer reach than OM3. The 10GE link model spreadsheet (http://ieee802.org/3/ae/public/adhoc/serial_pmd/documents/10GEPBud3_1_16a.xls) calculates a 1.65dB margin figure for OM4 vs. a 0.79dB margin figure for OM3 justifying a 400m reach.

IMPACT ON EXISTING NETWORKS:

Does not impact existing networks