DATE: December 1, 2005

MEMORANDUM

TO: Christopher L. North Computer Science 0106
    Robert Ball

FROM: David Moore

SUBJECT: IRB Amendment Approval: “Efficiency Curves for Embedded Data Sets”
        IRB # 05-616

This memo is regarding the above referenced protocol which was previously granted approval by
the IRB on November 11, 2005. You subsequently requested permission to amend your approved
protocol to include the addition of the listed changes. Since the requested amendment is
nonsubstantive in nature, I, as Chair of the Virginia Tech Institutional Review Board, have granted
approval for requested protocol amendment, effective as of December 1, 2005. The anniversary date
will remain the same as the original approval date.

Virginia Tech has an approved Federal Wide Assurance (FWA00000572, exp. 7/20/07) on file
with OHRP, and its IRB Registration Number is IRB00000667.

cc: File
    OSP 0170