G.   Counter-Force Capabilities After Modernization

Table 9

A. 600 SS-18 warheads are targeted against 300 fixed silo US ICBMs

    SS-18 Mod 4   SSKP = 0.654
                           Hardness = 2,000 psi
                                OAR = 70%
                                TKP = SSKP x OAR
                                    = 0.46

     Probability of
     survival of the targets = $(1-TKP_1) \times (1-TKP_2)$
                              = $(1-0.46) \times (1-0.46)$
                              = 0.30
                              = 30%

B. 700 Trident D-5 warheads are targeted against 350 Soviet fixed-
   silo ICBMs
   Trident D-5   SSKP = 0.98
                           Hardness = 2,000 psi
                                OAR = 80%
                                TKP = SSKP x OAR
                                    = 0.78

     Probability of
     survival of the targets = $(1-TKP_1) \times (1-TKP_2)$
                              = $(0.22) \times (0.22)$
                              = 0.05
                              = 5%

Table 9 makes similar calculations assuming the force structures posited after modernisation, as indicated in Tables 6 and 7. In the Soviet case, it is assumed that 600 S-18 warheads (60 missiles) are targeted against the 300 fixed silo US ICBMs deployed in the modernised force structure.   90 silos would survive, to which must be added the number of mobile Midgetman which might survive a barrage attack. Since the American force is now a mixed one, varying from the single warhead Midgetman to the 10 warhead MX, the number of warheads surviving cannot be calculated accurately using the above targeting strategy.