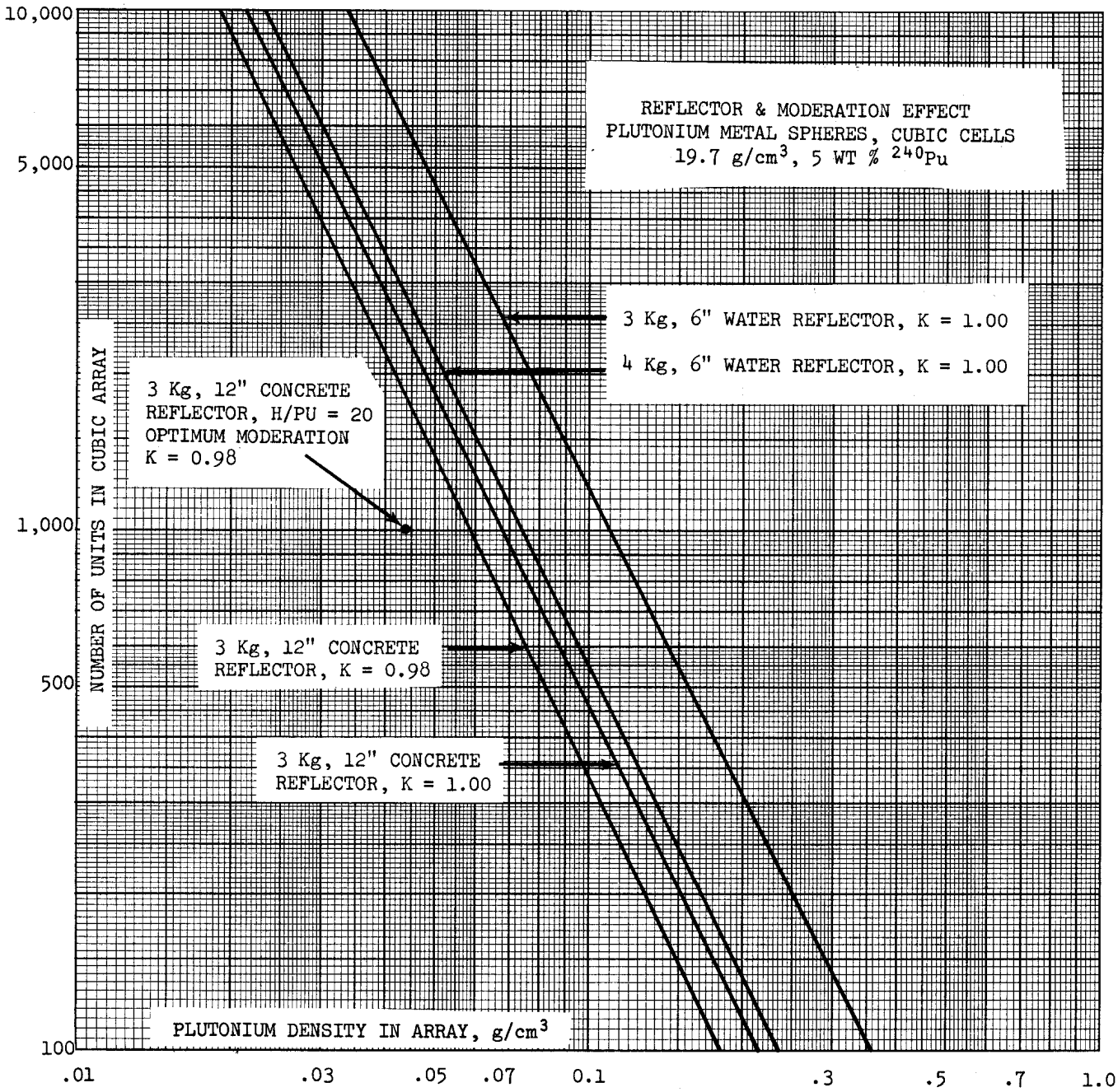
REFLECTOR & MODERATION EFFECT
PLUTONIUM METAL SPHERES, CUBIC CELLS
19.7 g/cm3, 5 WT % 240Pu
3 Kg, 6" WATER REFLECTOR, K = 1.00
4 Kg, 6" WATER REFLECTOR, K = 1.00
3 Kg, 12" CONCRETE REFLECTOR, H/PU = 20 OPTIMUM MODERATION K = 0.98
3 Kg, 12" CONCRETE REFLECTOR, K = 0.98
3 Kg, 12" CONCRETE REFLECTOR, K = 1.00
NUMBER OF UNITS IN CUBIC ARRAY
10,000
5,000
1,000
500
100
PLUTONIUM DENSITY IN ARRAY, g/cm3
.01
.03
.05
.07
0.1
.3
.5
.7
1.0