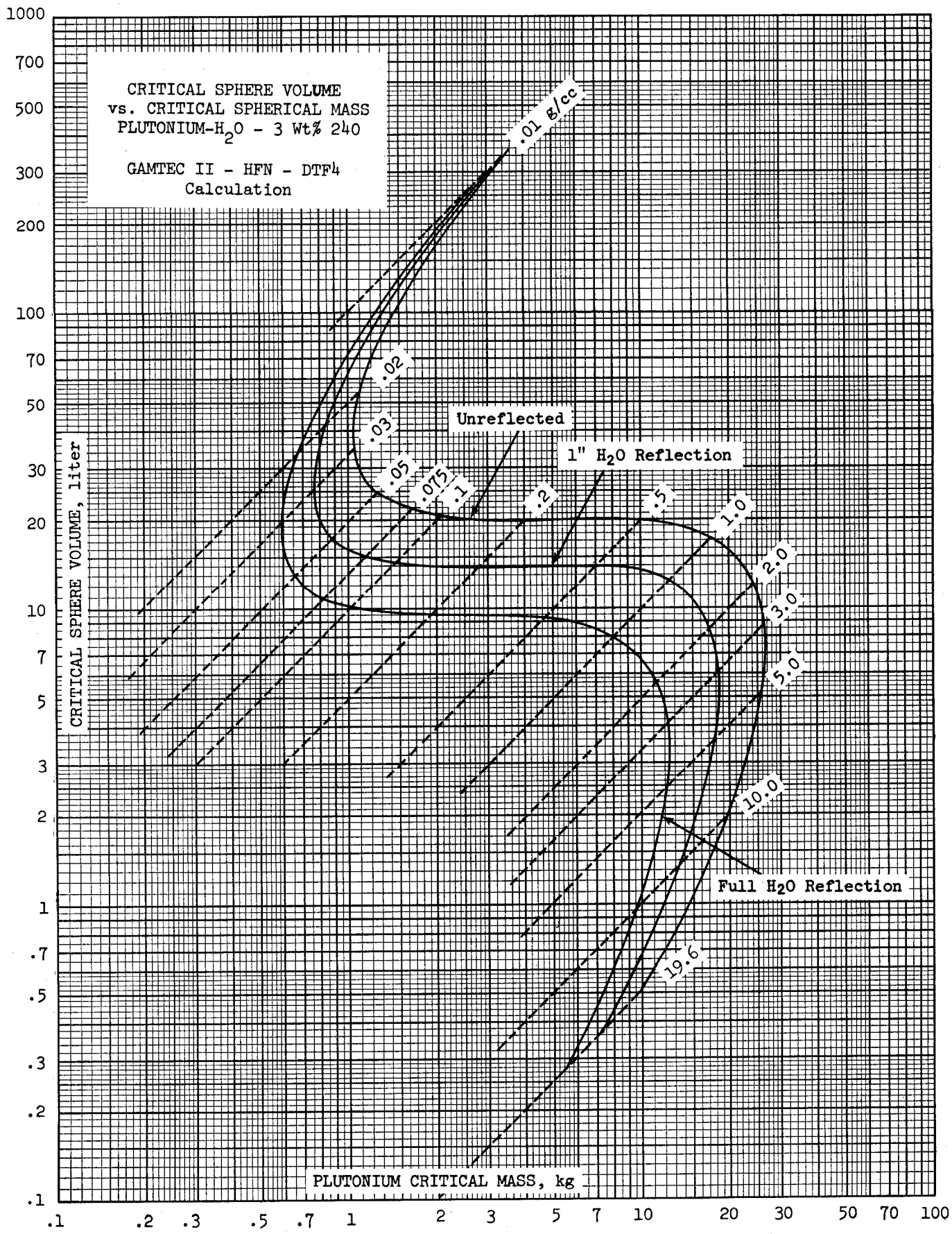
CRITICAL SPHERE VOLUME
vs. CRITICAL SPHERICAL MASS
PLUTONIUM-H2O - 3 Wt% 240
GAMTEC II - HFN - DTF4
Calculation
.01 g/cc
.02
.03
.05
.075
.1
.2
.5
1.0
2.0
3.0
5.0
10.0
19.6
Unreflected
1" H2O Reflection
Full H2O Reflection
CRITICAL SPHERE VOLUME, liter
PLUTONIUM CRITICAL MASS, kg
1000
700
500
300
200
100
70
50
30
20
10
7
5
3
2
1
.7
.5
.3
.2
.1
.1
.2
.3
.5
.7
1
2
3
5
7
10
20
30
50
70
100