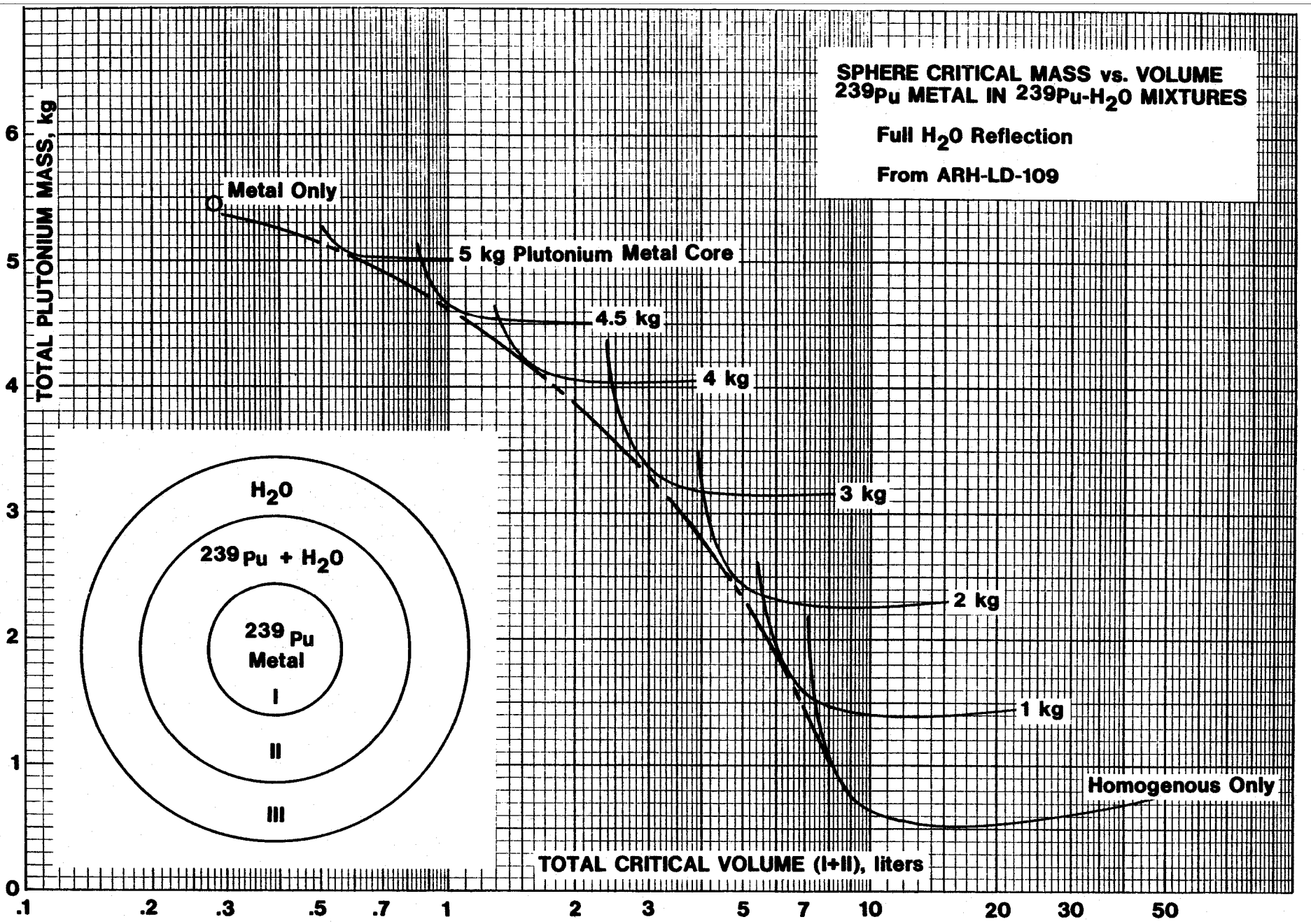
SPHERE CRITICAL MASS vs. VOLUME
239Pu METAL IN 239Pu-H2O MIXTURES
Full H2O Reflection
From ARH-LD-109
TOTAL PLUTONIUM MASS, kg
TOTAL CRITICAL VOLUME (I+II), liters
Metal Only
5 kg Plutonium Metal Core
4.5 kg
4 kg
3 kg
2 kg
1 kg
Homogenous Only
H2O
239Pu + H2O
239Pu Metal
I
II
III
0
1
2
3
4
5
6
.1
.2
.3
.5
.7
1
2
3
5
7
10
20
30
50