Primary Containments

GE BWR/4 Advanced Technology Course
R-504B – 6.2

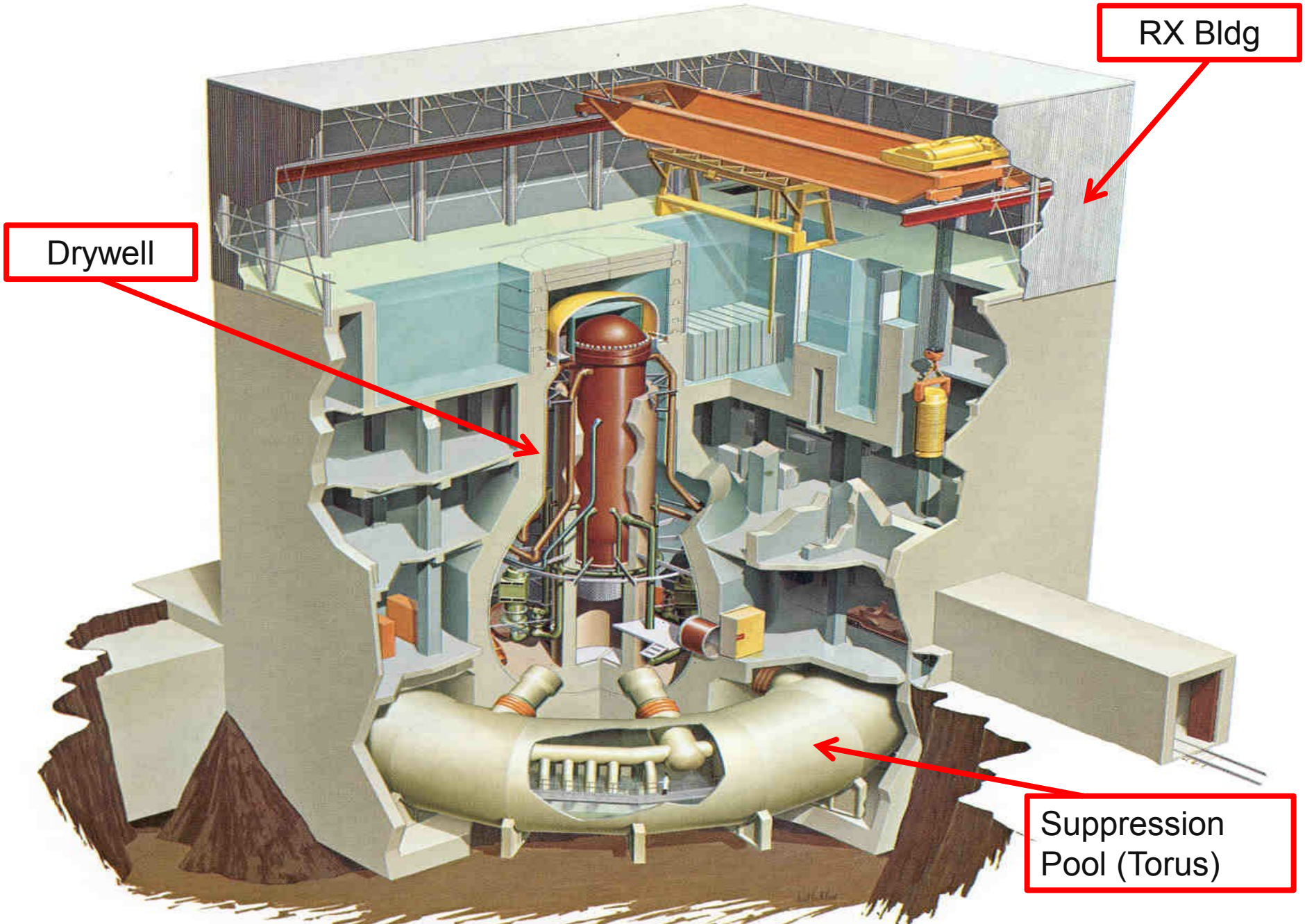
Objectives

1. Recognize the component differences of the Mark I, Mark II and Mark III containments.
2. Identify how the three containment types respond to a LOCA.
3. Identify how post-accident containment atmosphere (hydrogen and/or oxygen) is controlled for each BWR containment type.

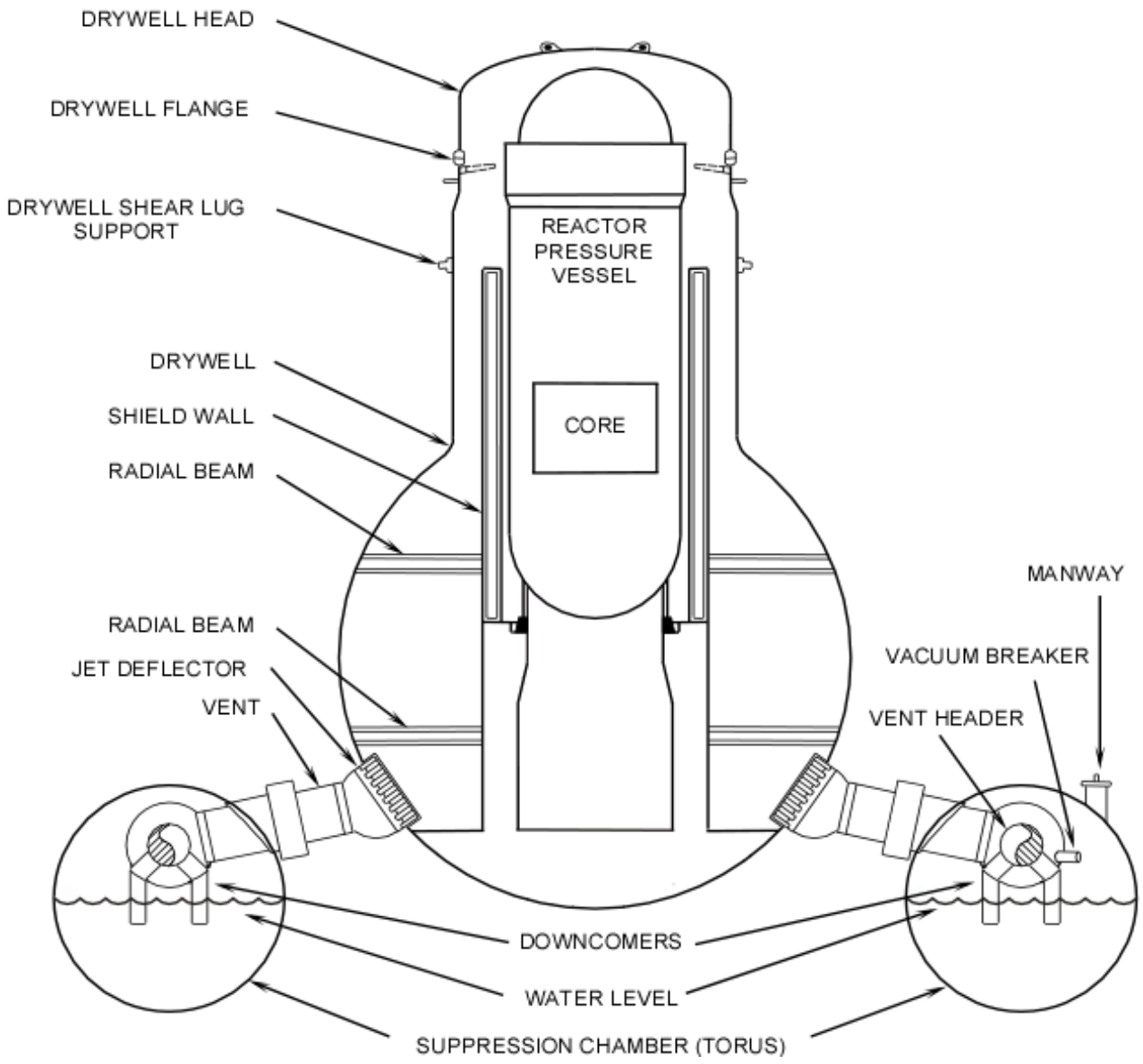
BWR Containment Purposes

- Condenses steam and contains fission products released from a LOCA so that the offsite radiation doses specified in 10 CFR 100 are not exceeded.
- Provides a heat sink for certain safety related equipment.
- Provides a source of water for emergency core cooling systems and the Reactor Core Isolation Cooling (RCIC) system.

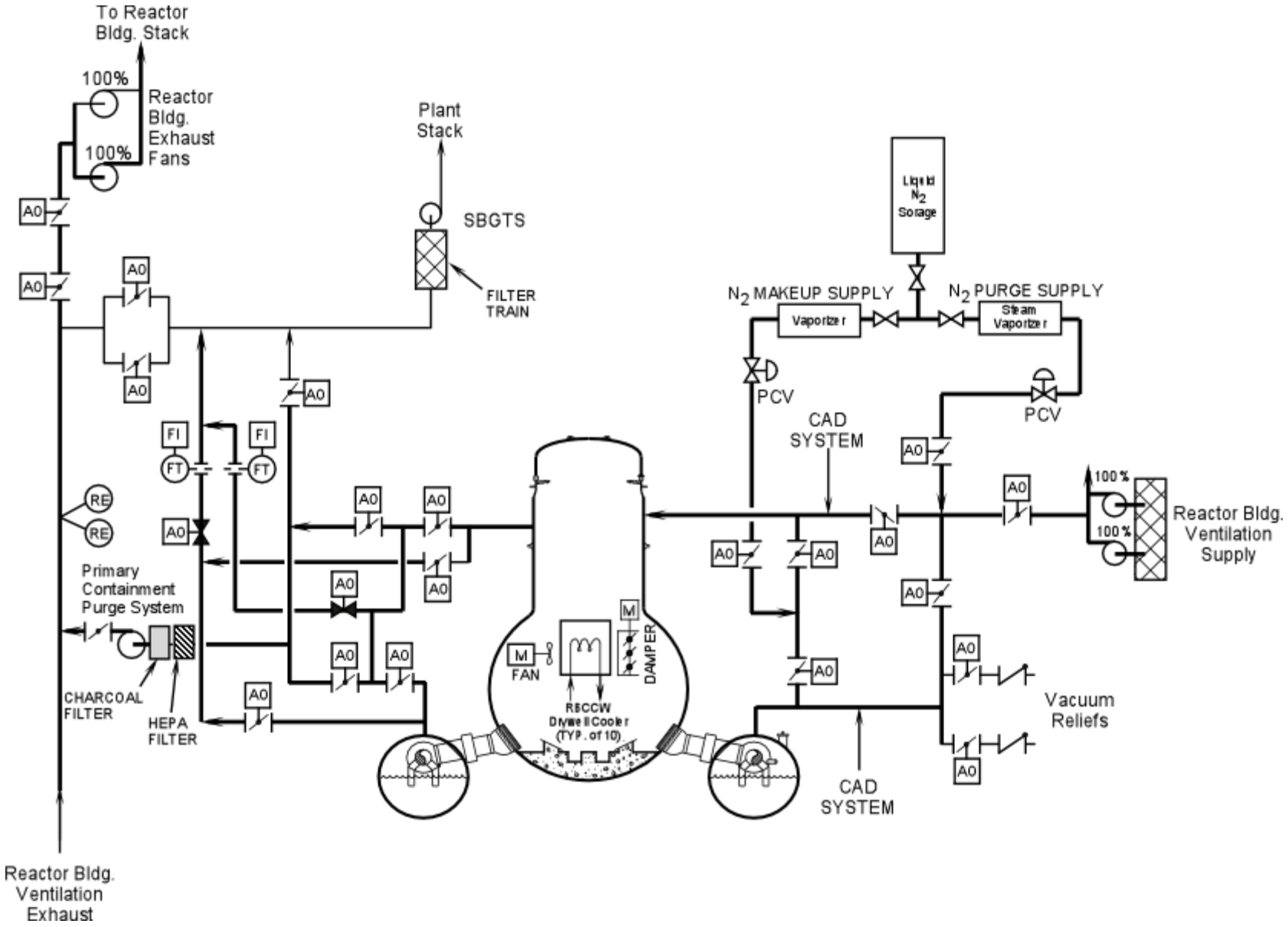
Mark I Containment



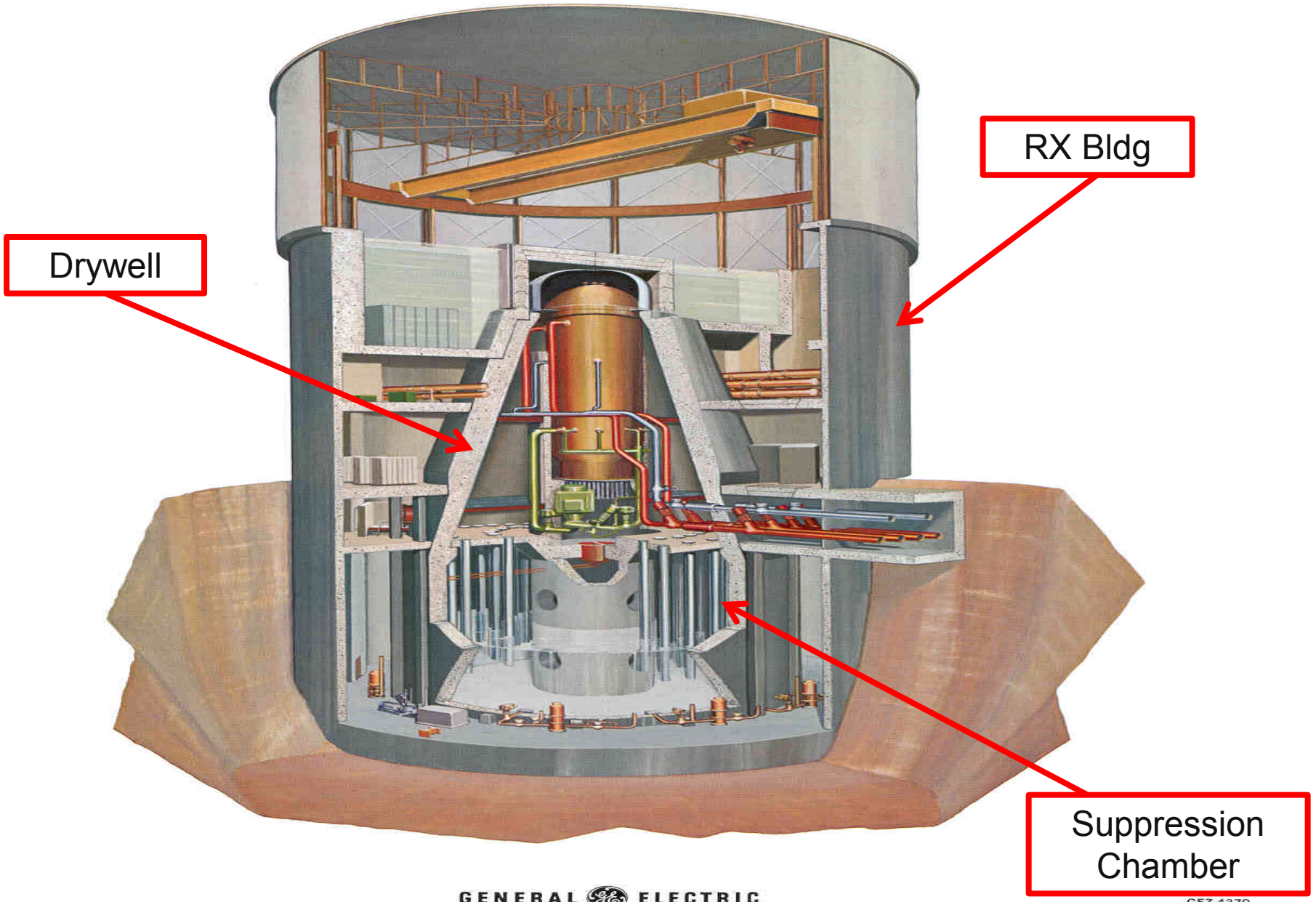
Mark I Containment



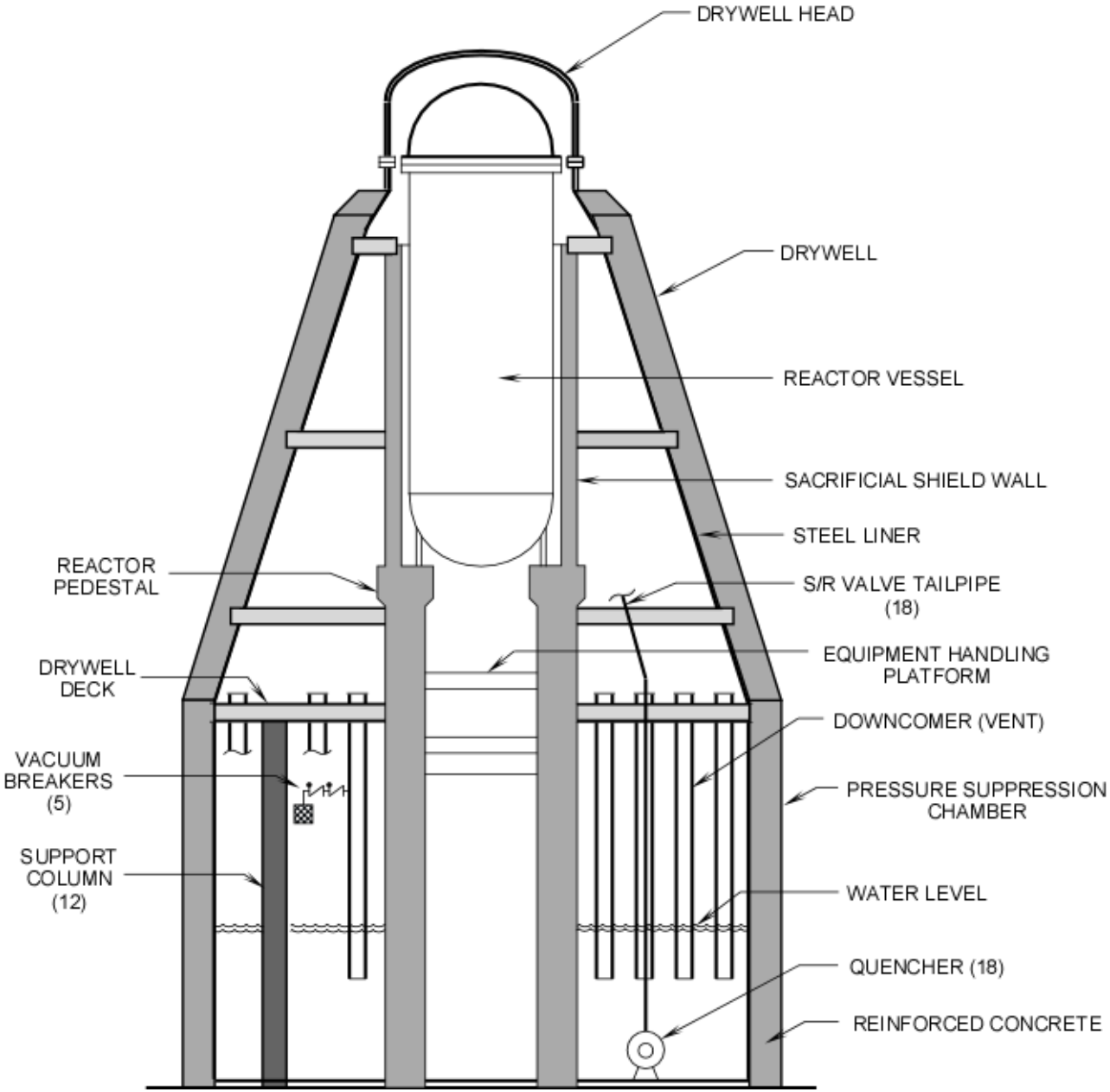
Mark I Combustible Gas Control



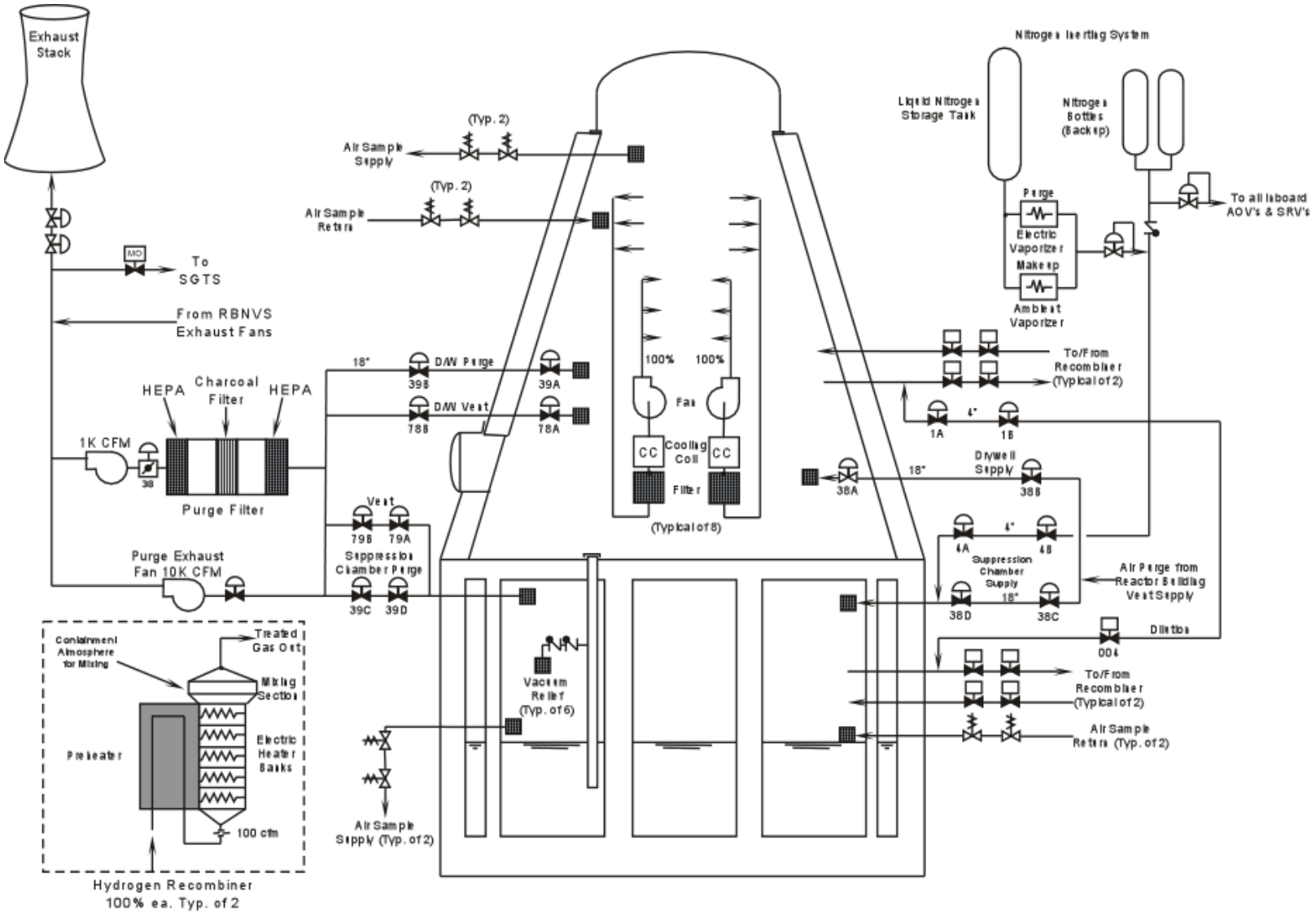
Mark II Containment



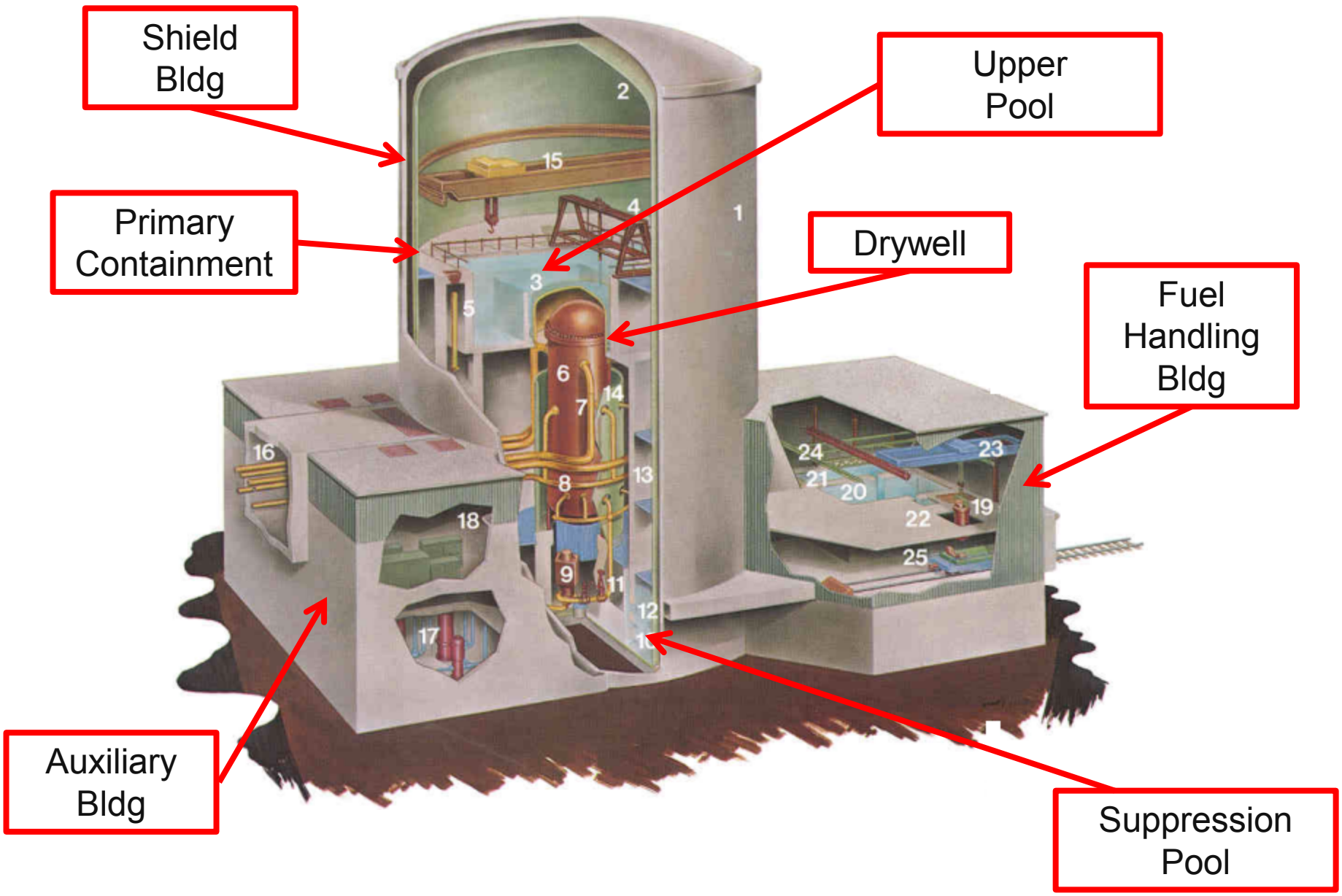
Mark II Containment



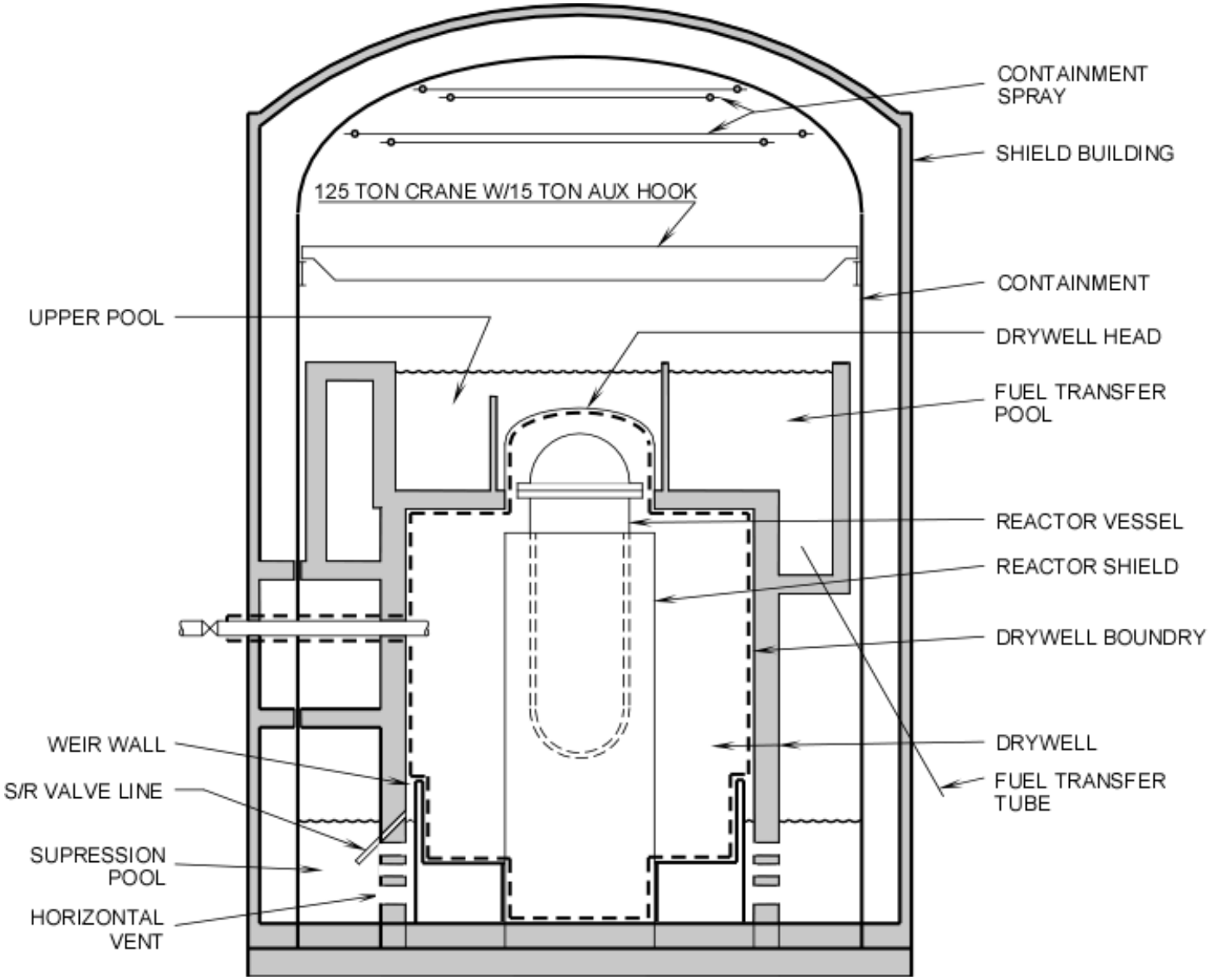
Mark II Combustible Gas Control



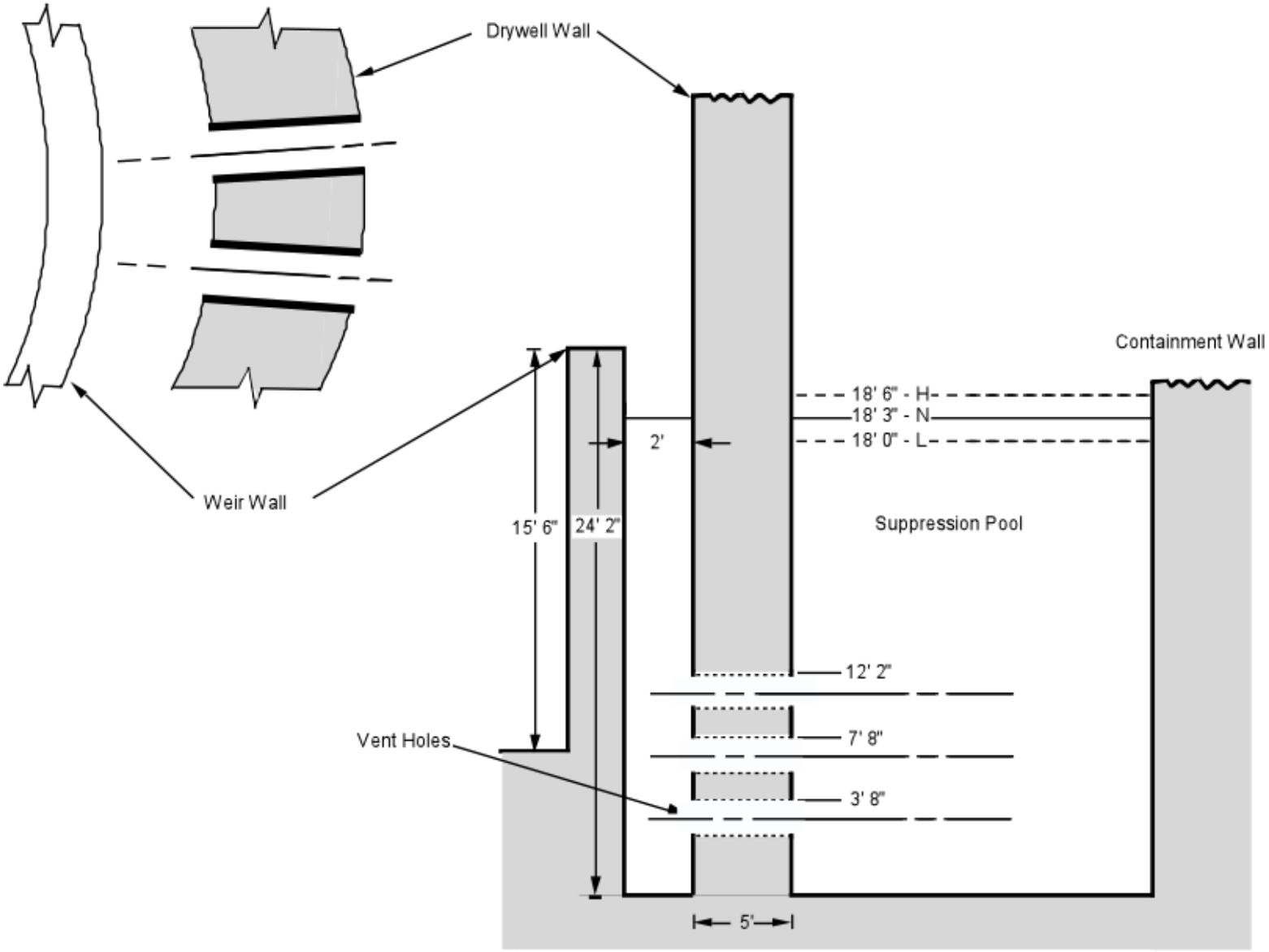
Mark III Containment



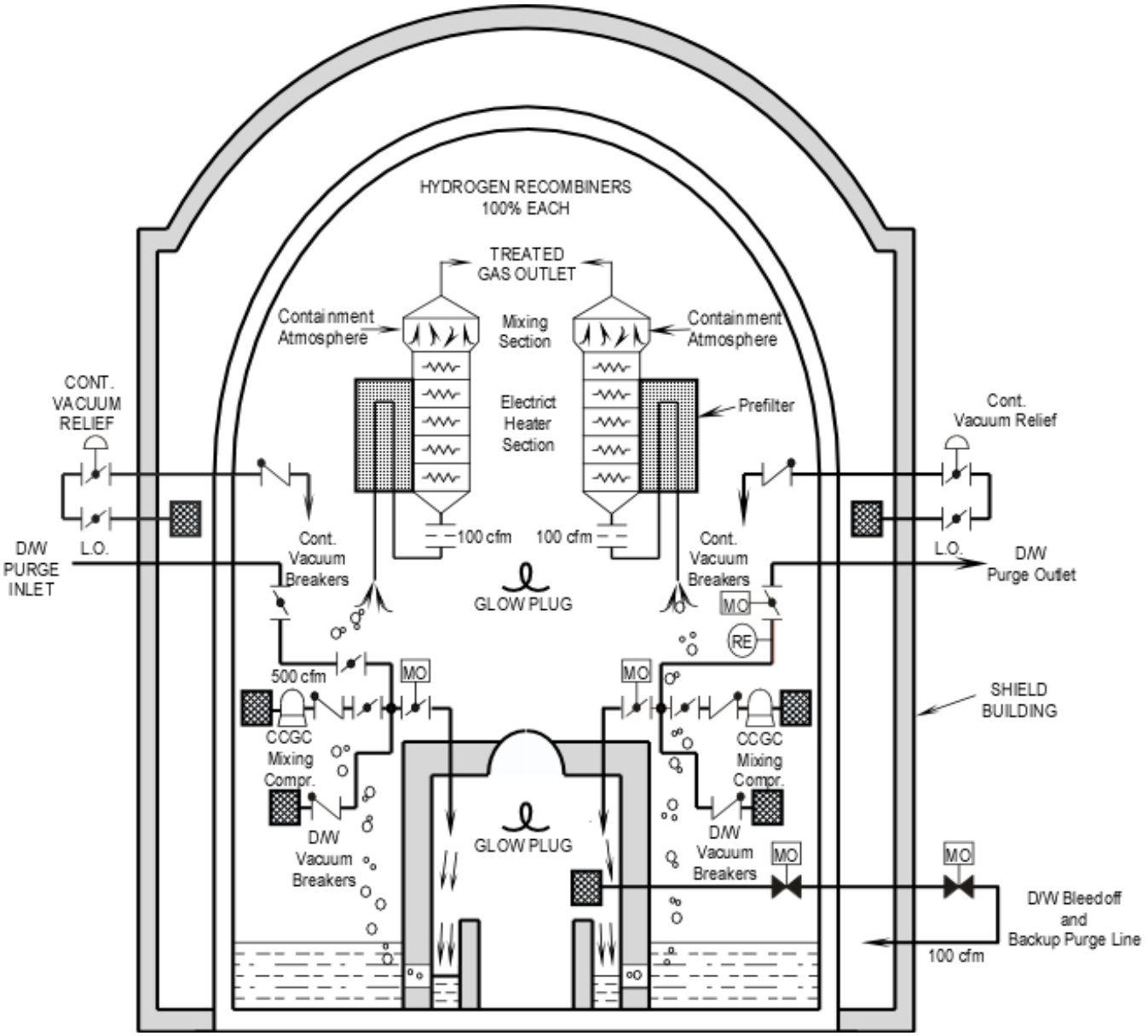
Mark III Containment



Mark III Horizontal Vents



Mark III Combustible Gas Control



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Questions?