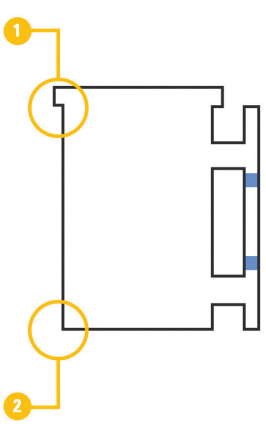
Safe-NET® Network Transformer Tank Design

Prolec GE's exclusive tank design, validated by independent thrid party test agencies, addresses the challenge of high fault energy driven tank events and the limitations with traditional network transformer designs.

- **Tested & Validated by KEMA**
  Prolec GE Safe-NET® Network Transformers are capable of withstanding in excess of 11 MJ of energy, with KEMA testing confirming all scenarios yield controlled energy evacuation downward and through the tank radiators.
- **Seismic Certification**
  Tested and certified to the highest North American standard for ground-level seismic levels, validating that the transformers are expected to withstand the mechanical vibrations of an earthquake.
- **Exceeds ANSI/IEEE Standards**
  The tank design far exceeds the tank pressure requirements laid out in the ANSI/IEEE C57.12.40 standard.

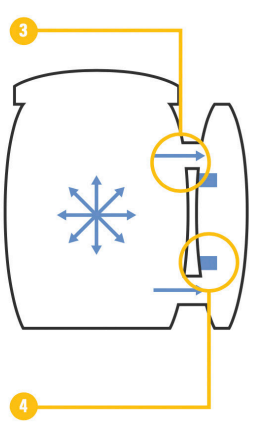
Controlled High Energy Safe-Net® Tank Design Sequence

Initial State
Increase tank rupture pressure by cover improvement



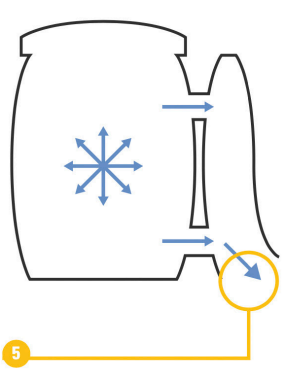
Increase bottom rupture capability

Pressure Relief
Up to 11 MJ of pressure relief through header pipe into radiator



Radiator Spacer Failure allows "pillowing", creating large expansion volume

Over 11 MJ of Pressure Relief



Radiator designed to fail at bottom or side serving as a directional blowout port