



# Emergency Mitigating Equipment

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# Emergency Mitigating Equipment (EME)

- Pickering has many redundant safety systems in place
- EME is used in the unlikely event of a Beyond Design Basis event
- EME via pumps and generators supplies water and power to critical safety systems
- This ensures we keep the fuel cool and maintain the integrity of containment



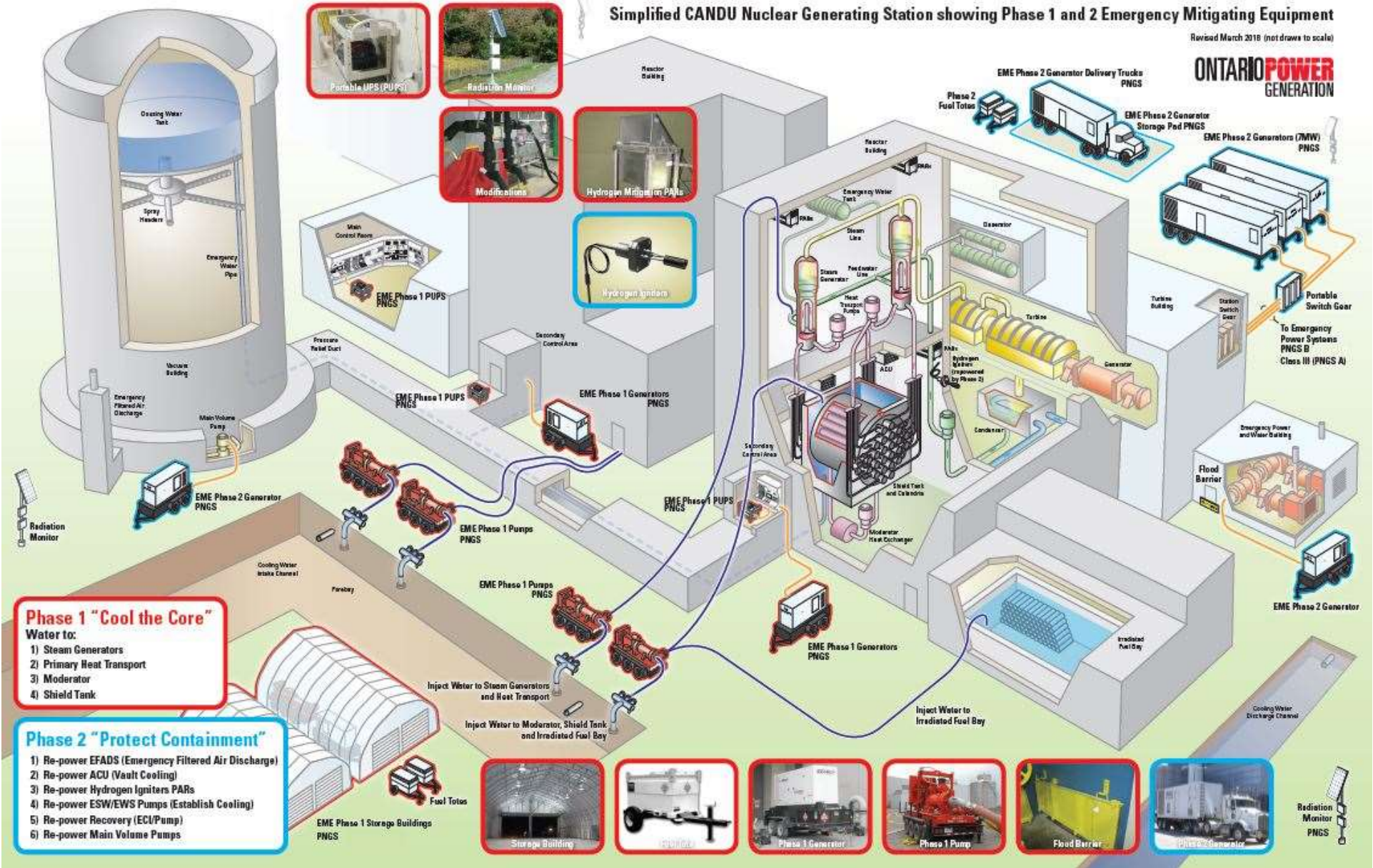
# Emergency Mitigating Equipment (EME)

- Equipment is ready for deployment at all times
- Trailer mounted and stored outside the protected area
- Each pump and generator is ready for deployment
  - Daily, monthly and yearly checks are performed to ensure readiness
- Drills are conducted to include the deployment of EME equipment.



# Simplified CANDU Nuclear Generating Station showing Phase 1 and 2 Emergency Mitigating Equipment

Revised March 2018 (not drawn to scale)



**Phase 1 "Cool the Core"**  
Water to:

- 1) Steam Generators
- 2) Primary Heat Transport
- 3) Moderator
- 4) Shield Tank

**Phase 2 "Protect Containment"**

- 1) Re-power EFADS (Emergency Filtered Air Discharge)
- 2) Re-power ACU (Vault Cooling)
- 3) Re-power Hydrogen Igniters PARS
- 4) Re-power ESW/EWS Pumps (Establish Cooling)
- 5) Re-power Recovery (ECU/Pump)
- 6) Re-power Main Volume Pumps

