

ACR ReducedVoid Reactivity

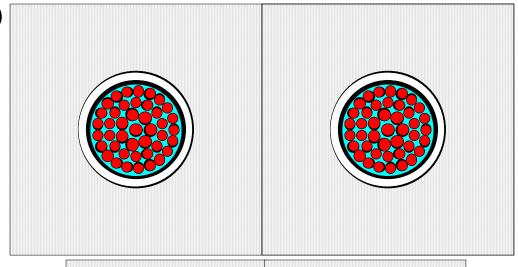
B. Rouben

ACR Full-Core Coolant Void



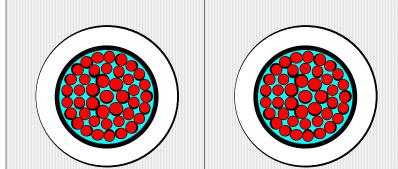
The full-core void reactivity in the ACR is negative, as a result of smaller lattice pitch and larger gap between pressure and calandria tube (⇒ increased role of coolant as moderator), and dysprosium poison in the central fuel

element)



CANDU-6

Cells



ACR Cells

2005 November

ACR Full-Core Coolant Void



Summary

The full-core void reactivity in the ACR is negative, as a result of:

A smaller lattice pitch

A larger gap between pressure and calandria tube (⇒ increased role of coolant as moderator), and

dysprosium poison in the central fuel element