

UNENE Graduate Course
Reactor Thermal-Hydraulics Design and
Analysis
McMaster University
Whitby
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Assignments

Dr. Nik Popov

Assignments

- Assignment 1

- Comparison of thermal-hydraulics design of ACR-700, ACR-1000, EPR-1000, AP-1000, etc.
 - Student presentations
 - Student papers

- Assignment 2

- 2a – Steam generator calculation – analytical and numeric
- 2b – Channel heat transfer calculation
- 2c – CHF calculation
- 2d – Thermal efficiency calculation
- 2e – ACR comparison to other CANDU reactors (tables)
- 2f – Propagate one design change to cascading consequential design changes

Questions?