



Reactor Operational Data

Indicator	2010*	2011*	2012*
Reactor availability ⁽¹⁾	77%	75%	94%
Reliability ⁽¹⁾	89%	94%	94%
Reactor Utilization ⁽¹⁾	52%	49%	62%
Hours of operation at 250kW	229,92	376,4	208.86
Days in operation	95	72	72
MWD	2,35	3,92	2.17
Burn-up (²³⁵ U, g)	2,52	4,13	2.29

* Data collected each year from September to August (e.g. September 2009-August 2010)

⁽¹⁾ Calculation made according with the publication "Optimization of Research Reactor Availability and Reliability: Recommended Practices" - IAEA Nuclear Energy Series No. NP-T-5.4, where:

Availability: fraction of time for which a system is capable of fulfilling its intended purpose:

$$\frac{\text{actual operating time}}{\text{planned operating time}} * 100$$

Reliability: probability that a system or component will meet its minimum performance requirements when called upon to do so:

$$\frac{\text{actual operating time}}{(\text{actual operating time} + \text{time of unplanned shutdowns})}$$

Utilization: measure of a facility's planned operation or duty:

$$\frac{\text{planned operating time}}{\text{total time of report period}} * 100$$