

DIN 25463-2:2014-02 (E)

Calculation of the decay power in nuclear fuels of light water reactors - Part 2: Mixed-uranium-plutonium oxide (MOX) nuclear fuel for pressurized water reactors

Contents		Page
Foreword		3
Introduction		4
1	Scope	5
2	Terms and definitions	6
3	Decay power	9
3.1	General	9
3.2	Power histogram	9
3.3	Calculation instructions	10
3.3.1	General	10
3.3.2	Decay power of the fission products and of their decay products, SP	11
3.3.3	Decay power of the actinides and of nuclides resulting from neutron capture reaction in the fission products, PR	12
3.3.4	Total decay power, PZ	12
3.4	Uncertainty of the results, ZP	13
Annex A (normative) Linear interpolation of the effective cross-sections		28
A.1	General	28
A.2	Linear interpolation of the effective cross-sections for the fuel properties	29
A.3	Linear interpolation of the effective cross-sections for the respective burn-up rate	30
Annex B (informative) Application example		31
B.1	PWR MOX fuel element and power histogram specifications	31
B.2	Calculation results	32
Bibliography		45